TA-SB500WR

SERVICE MANUAL

Ver 1.1 2007.02

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model



- TA-SB500WR is the amplifier section in DAV-LF10/ DAV-SB500W/WAHT-SD1.
- Refer to the supplement-1 of this service manual for TA-SB500WR in WAHT-SD1.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS for the US model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION: With 4 ohm loads, both channels driven, from 200 – 20,000 Hz; rated 65 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milli watts to rated output.

Amplifier section

Stereo mode (rated)	86 W + 86 W (4 ohms at 1 kHz, THD 10 %)
Surround mode (reference)	music power output for DAV-LF10: 86 W* (with SS-TSL11) for DAV-SB500W: 96 W + 96 W* (with SS-TS11)

* *Depending on the sound field settings and the source, there may be no sound output.*

Surround amplifier

Power requirements	
North American models:	120 V AC, 60 Hz
Taiwan model:	120 V AC, 50/60 Hz
Other models:	220-240 V AC, 50/60 Hz
Power consumption	36 W (120 V AC) 36 W (220-240 V AC)
Dimensions (approx.)	65 × 90 × 335 mm (2 $^{5}/_{8}$ × 3 $^{5}/_{8}$ × 13 $^{1}/_{4}$ inches) (w/h/d) incl. speaker cord cover
Mass (approx.)	1.3 kg (2 lb 14 oz)

Design and specifications are subject to change without notice.

SURROUND AMPLIFIER

9-879-016-02
2007B05-1

Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

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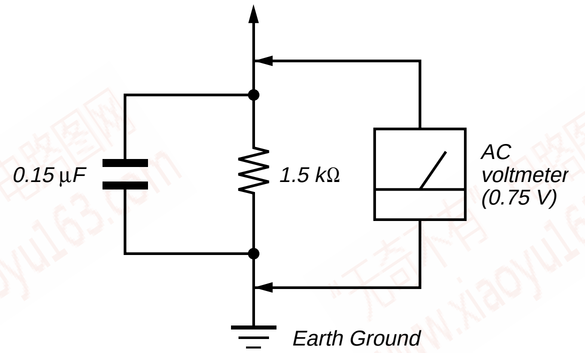


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

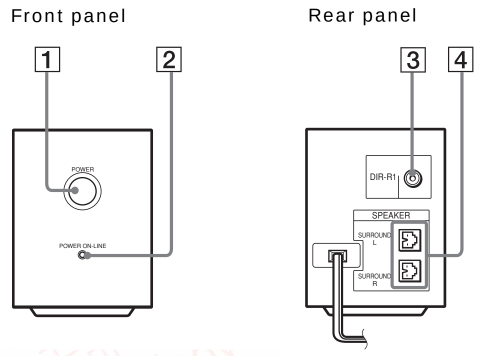
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

SECTION 1
GENERAL

LOCATION OF CONTROLS

Surround amplifier



1 **POWER**
2 **POWER/ON LINE indicator**
3 **DIR-R1 jack**
4 **SPEAKER jacks**

SECTION 2
DISASSEMBLY

- This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW

SET

↓

2-2. WIRE COVER (Page 4)

↓

2-3. TOP PANEL (Page 5)

↓

2-4. SIDE PANEL, FRONT PANEL SECTION (Page 5)

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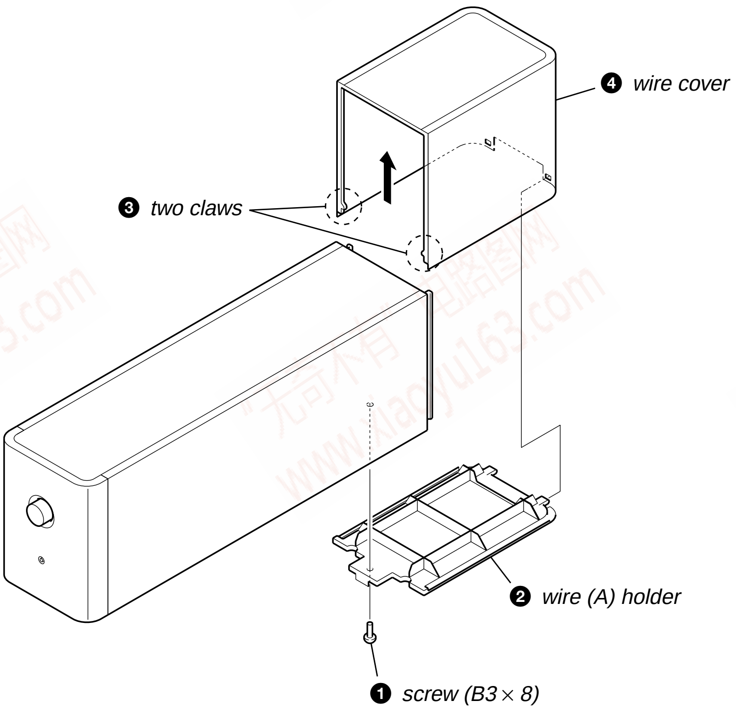
2-5. DIAT POWER BOARD (Page 6)

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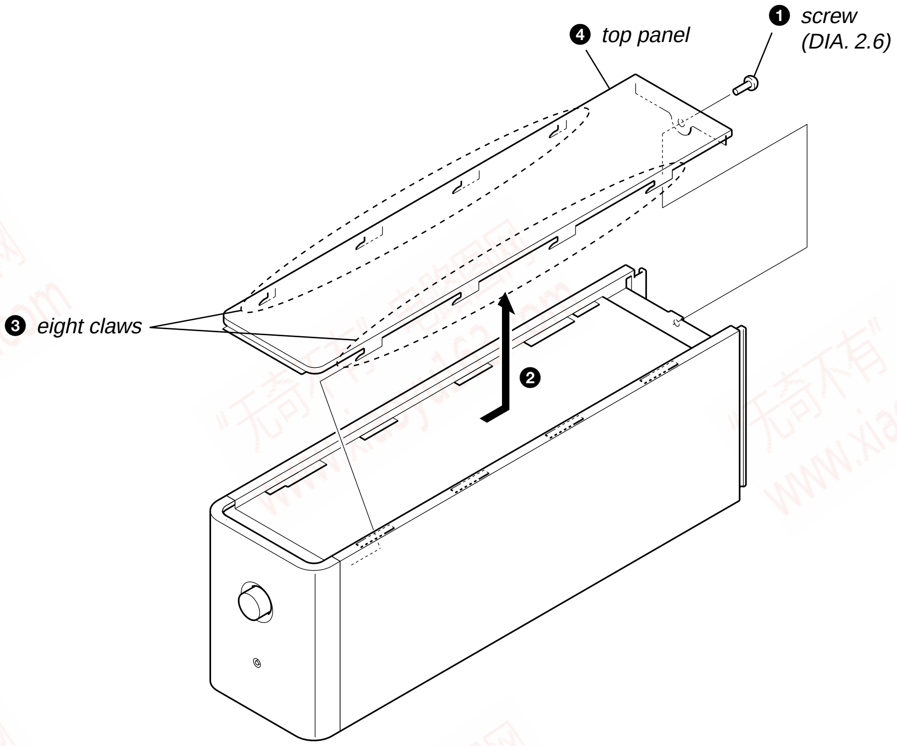
2-6. DIAT AMP BOARD (Page 6)

Note: Follow the disassembly procedure in the numerical order given.

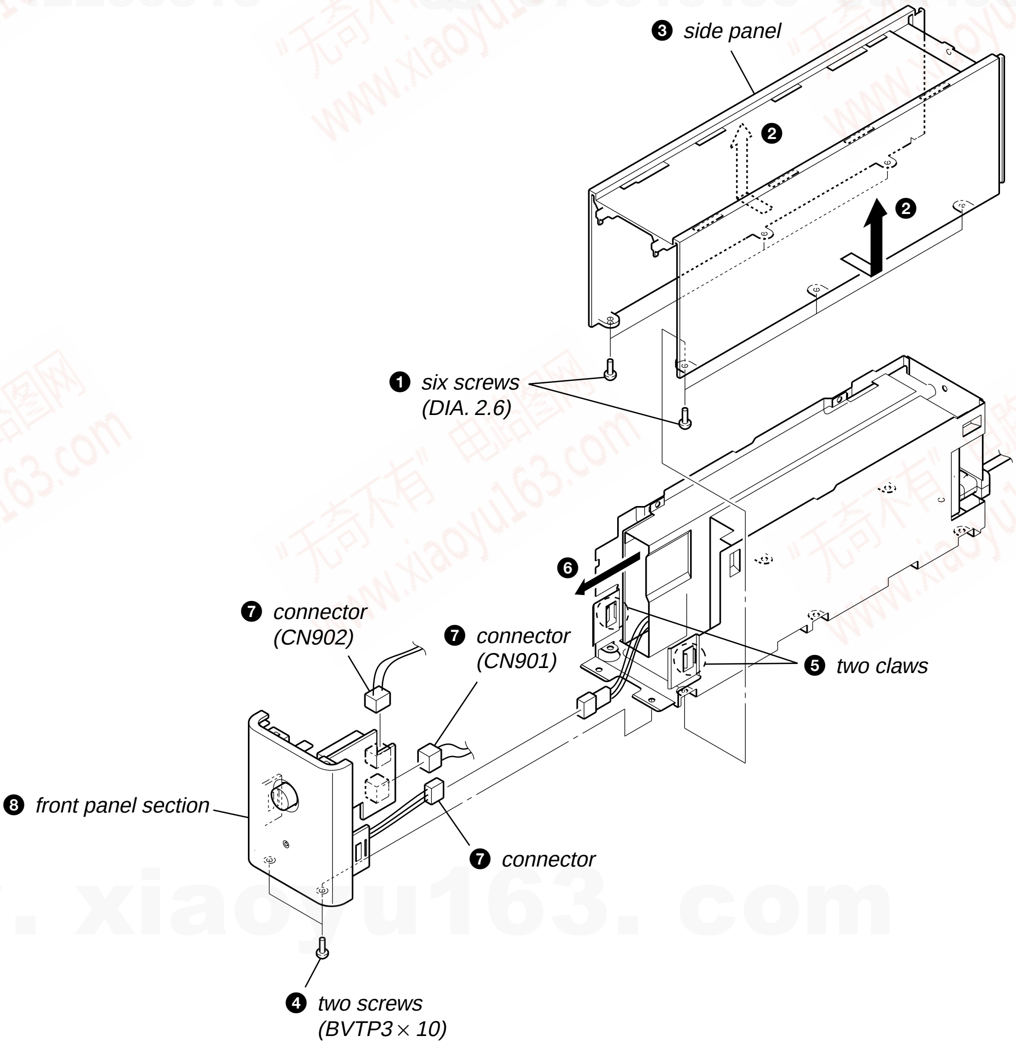
2-2. WIRE COVER



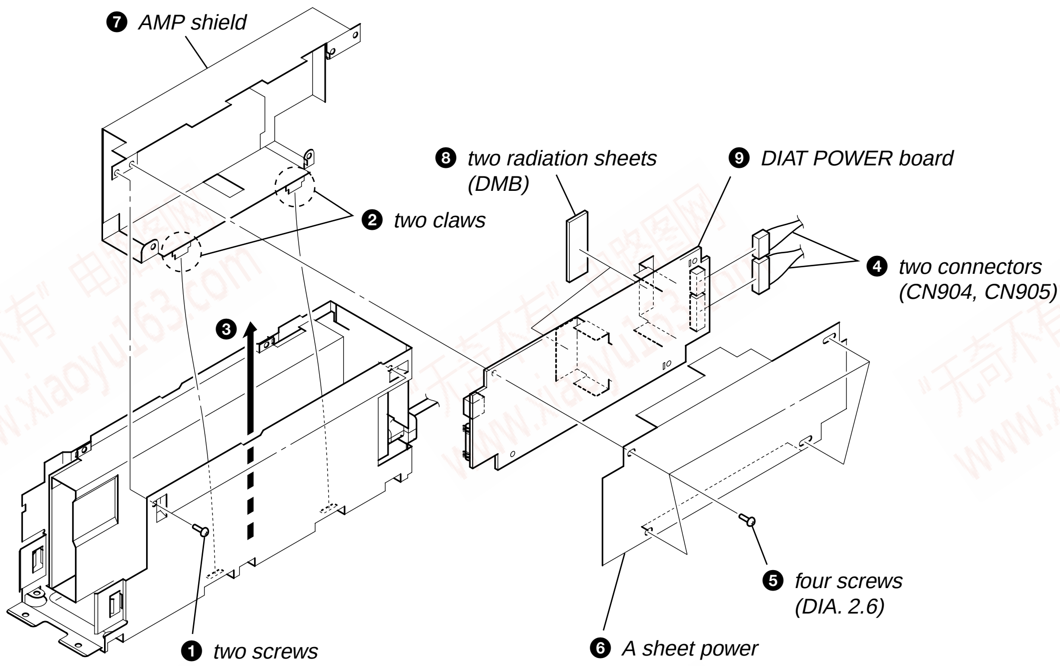
2-3. TOP PANEL



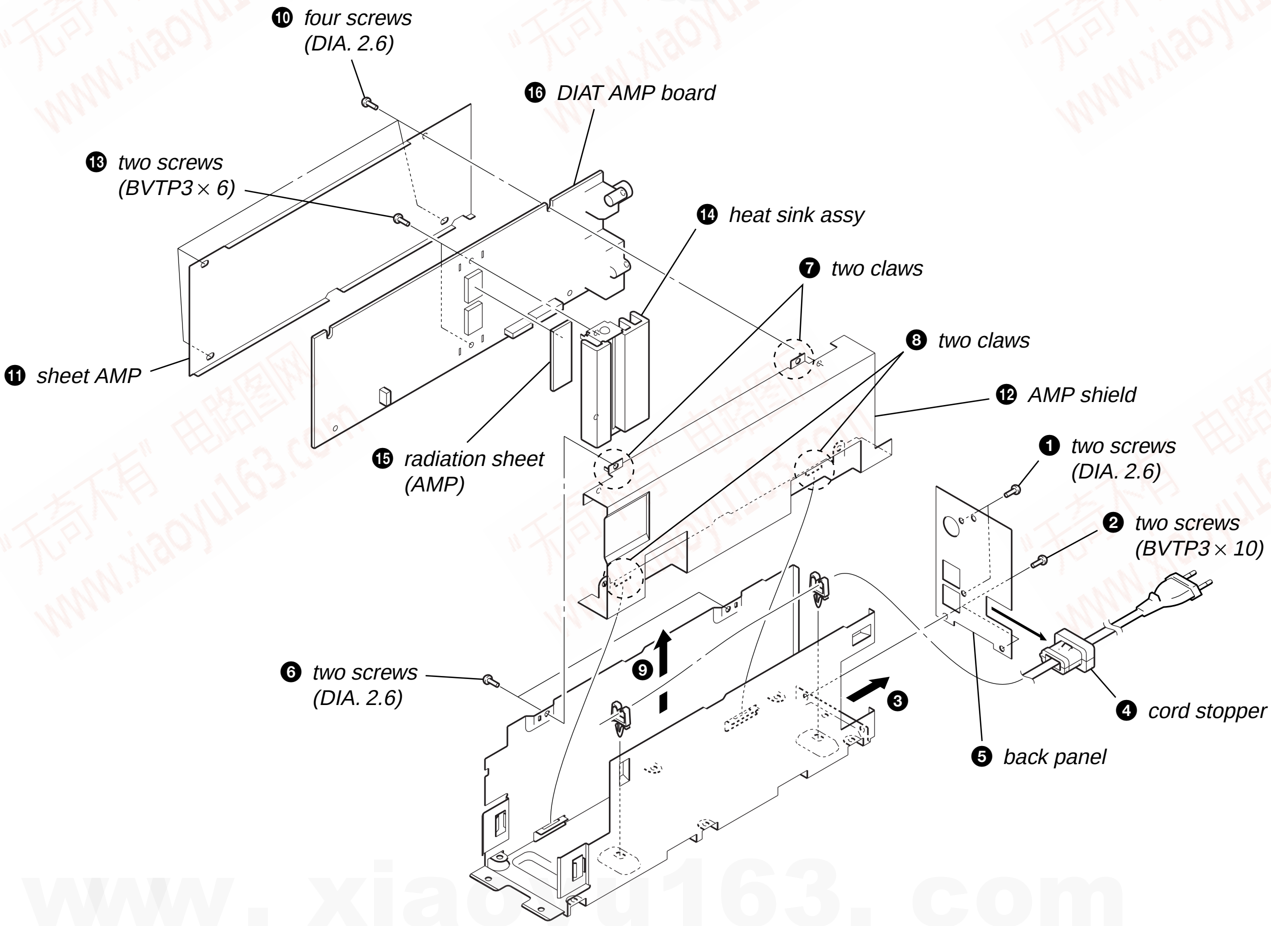
2-4. SIDE PANEL, FRONT PANEL SECTION



2-5. DIAT POWER BOARD

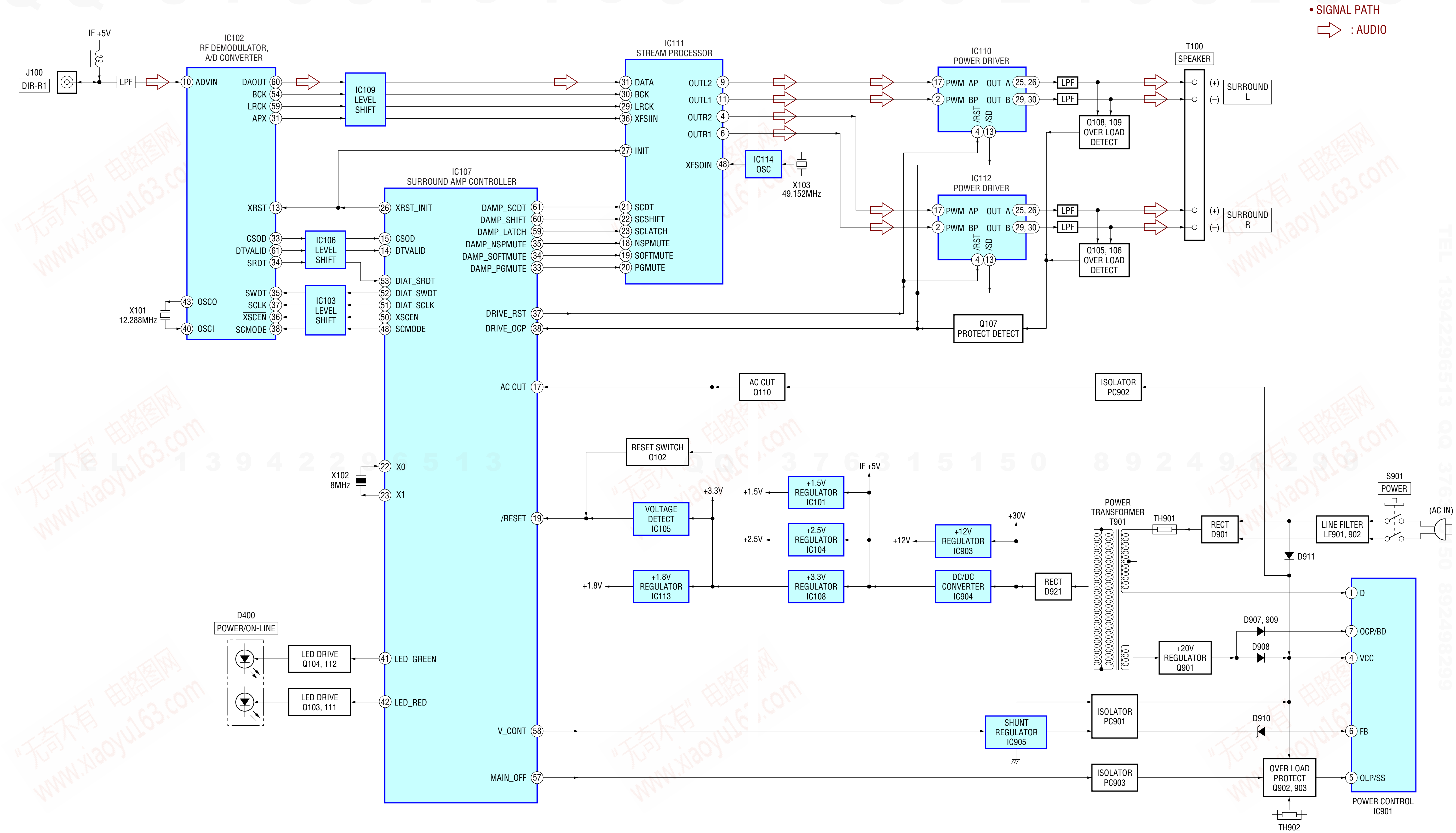


2-6. DIAT AMP BOARD



SECTION 3 DIAGRAMS

3-1. BLOCK DIAGRAM



• Note for Printed Wiring Boards and Schematic Diagrams

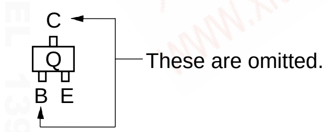
Note on Printed Wiring Boards:

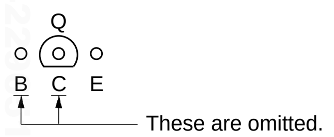
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- (green pattern) : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- DIAT AMP board is multi-layer printed board. However, the patterns of intermediate layers have not been included in diagrams.
- Indication of transistor.





Note on Schematic Diagram:

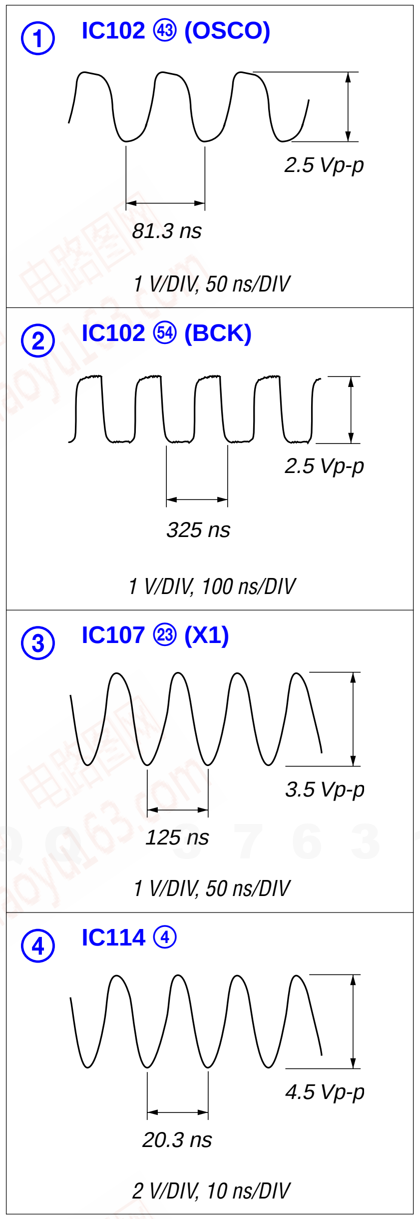
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- (nonflammable resistor symbol) : nonflammable resistor.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

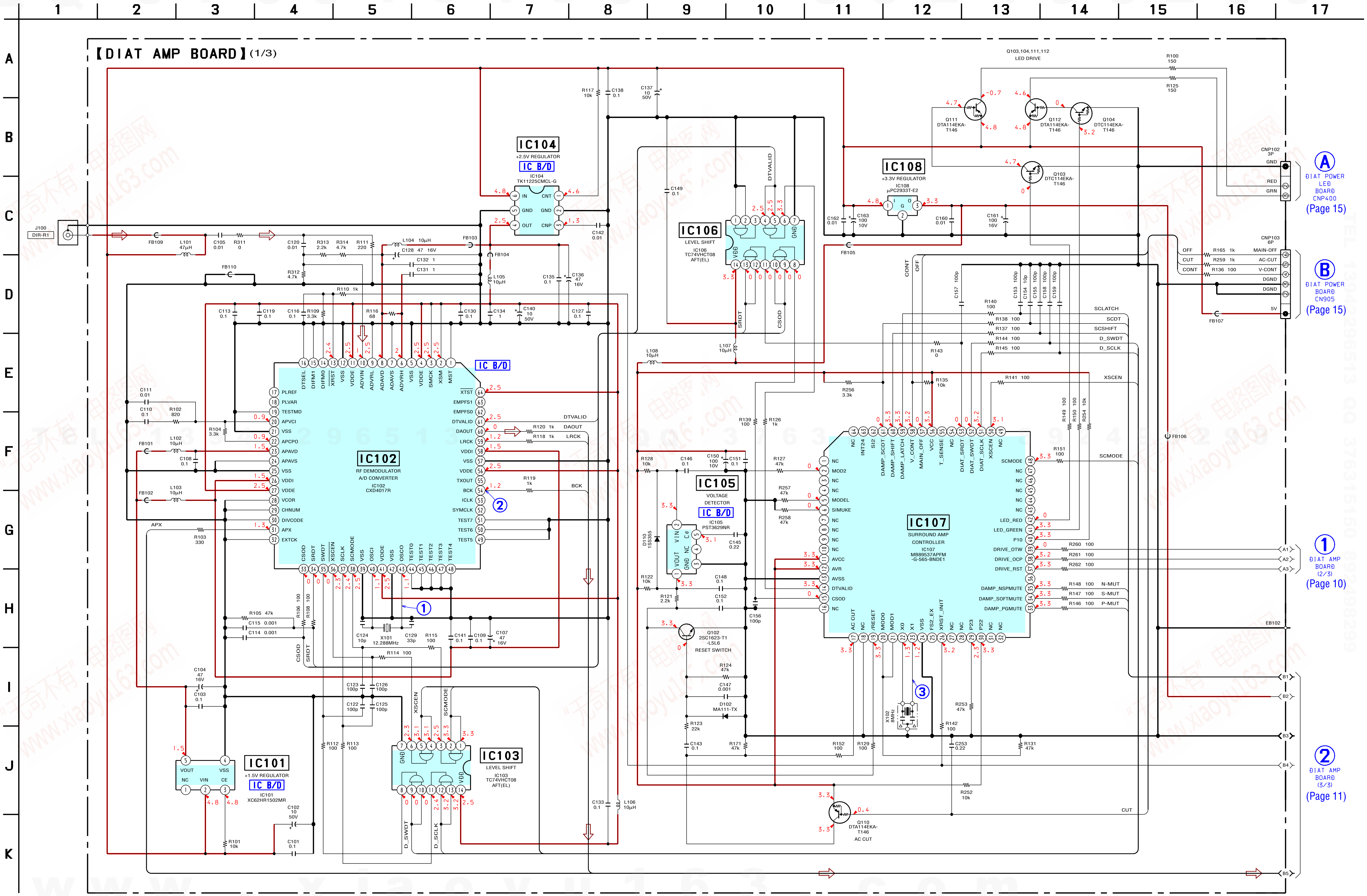
- ▬▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  Note: When mesurering voltages and waveforms, connect with HCD-SB500W (HCD-SB500W states: DVD play).
  no mark : DVD PLAY
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : AUDIO
- Abbreviation
  TW : Taiwan model

• Waveforms

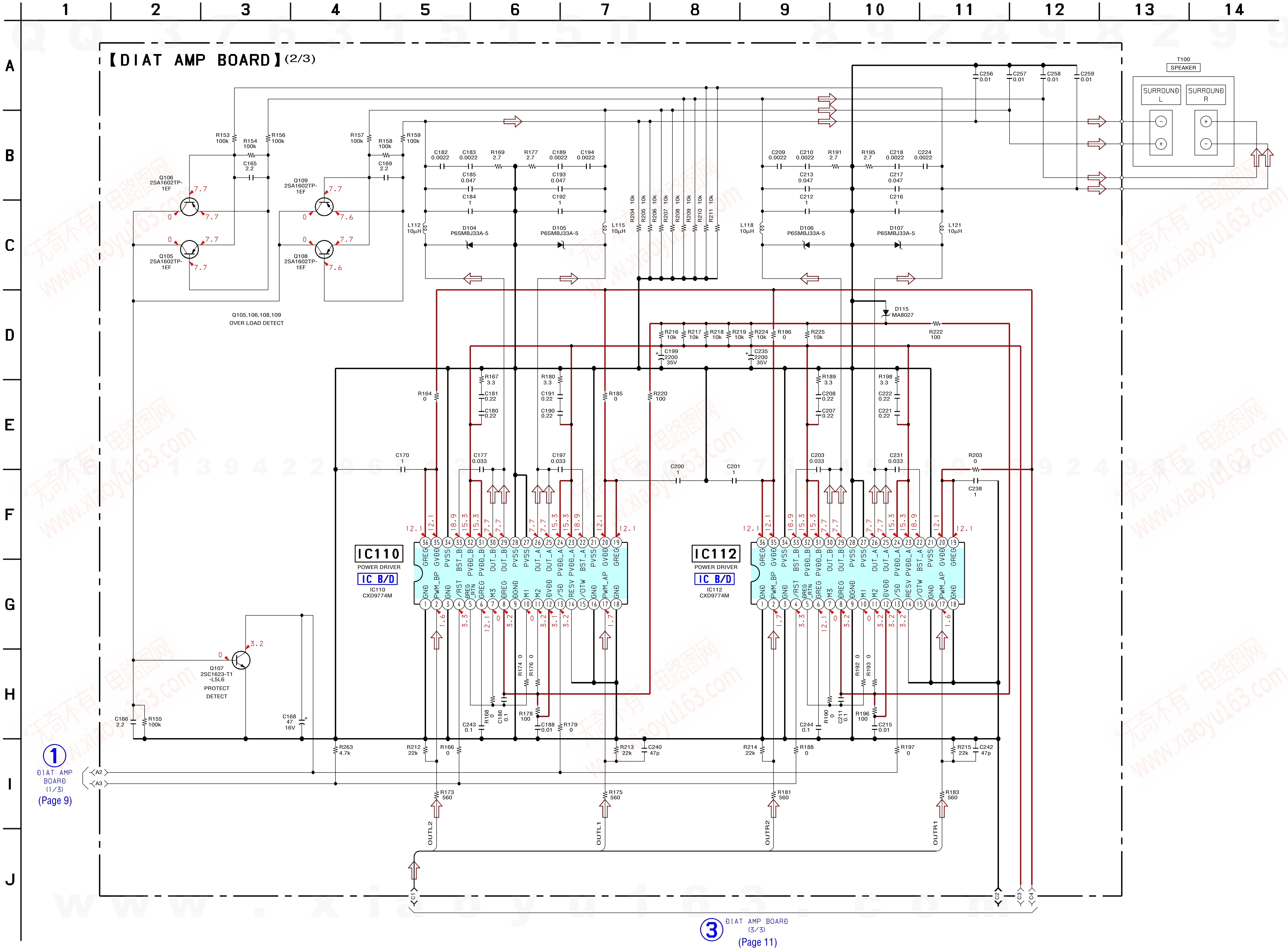
– DIAT AMP Board –



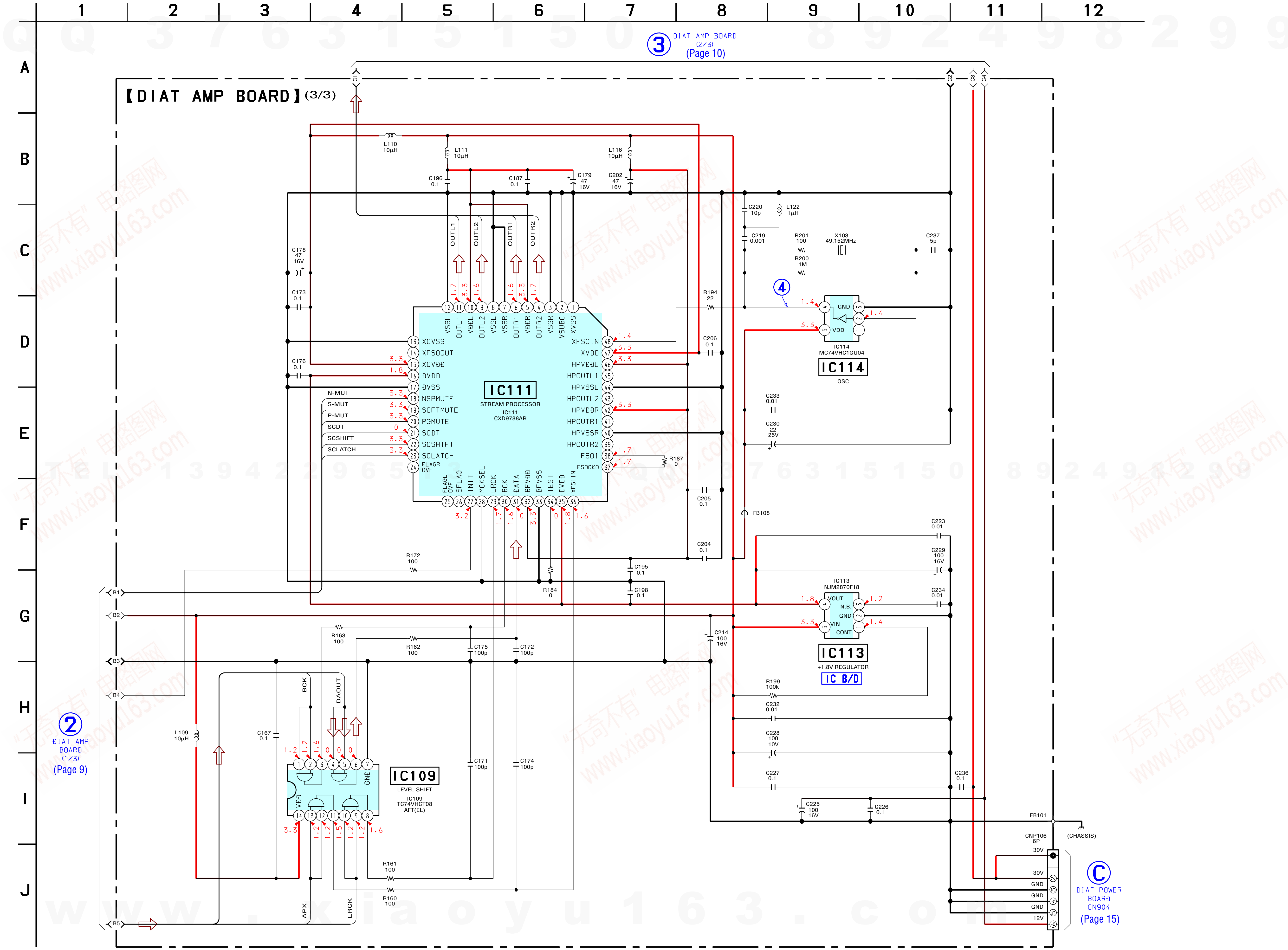
3-2. SCHEMATIC DIAGRAM – DIAT AMP Board (1/3) – • See page 8 for Waveforms. • See page 16 for IC Block Diagrams. • See page 18 for IC Pin Function Description.



3-3. SCHEMATIC DIAGRAM – DIAT AMP Board (2/3) – • See page 16 for IC Block Diagrams.



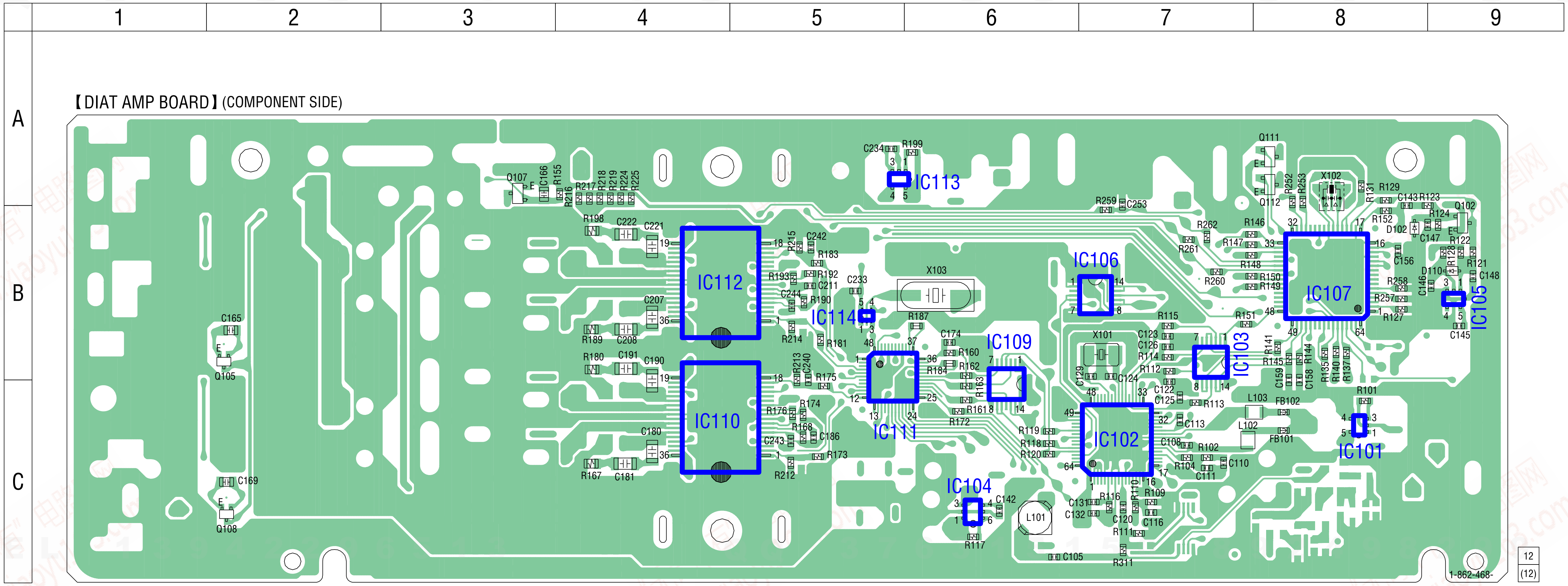
3-4. SCHEMATIC DIAGRAM – DIAT AMP Board (3/3) – • See page 8 for Waveform. • See page 16 for IC Block Diagram.



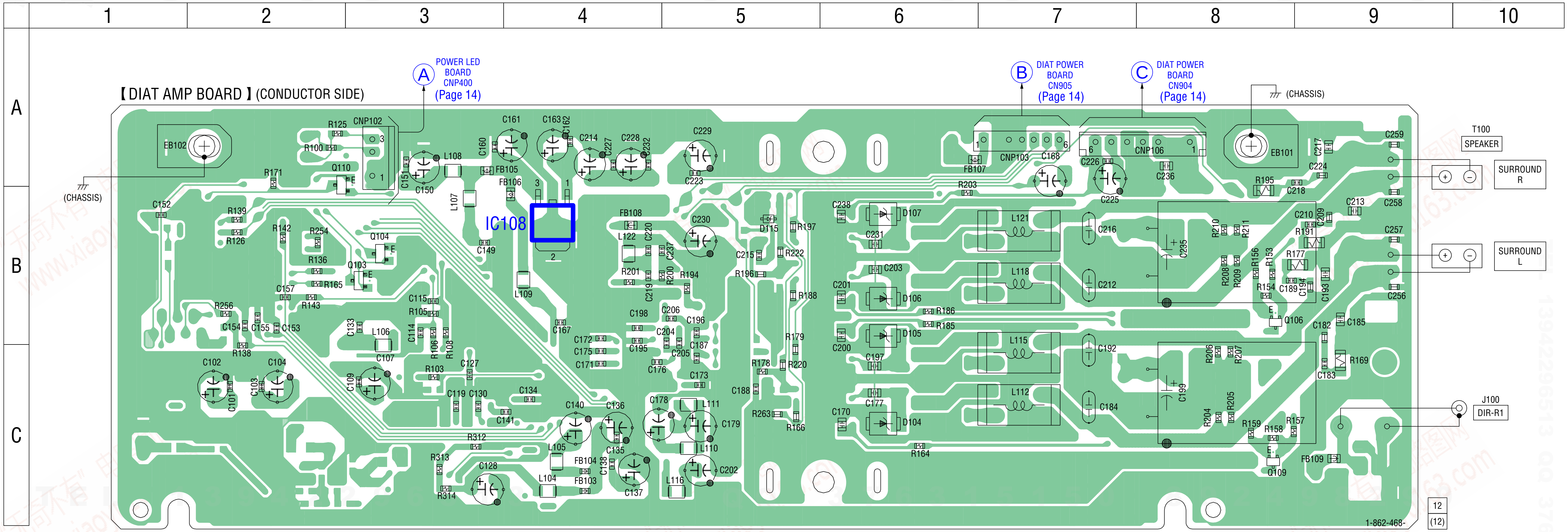
3-5. PRINTED WIRING BOARD – DIAT AMP Board (Component Side) – :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
D103	B-1
D104	C-6
D105	B-6
D106	B-6
D107	B-6
D115	B-5
IC108	B-4
Q103	B-3
Q104	B-3
Q106	C-8
Q109	C-8
Q110	A-1



3-6. PRINTED WIRING BOARD – DIAT AMP Board (Conductor Side) – :Uses unleaded solder.



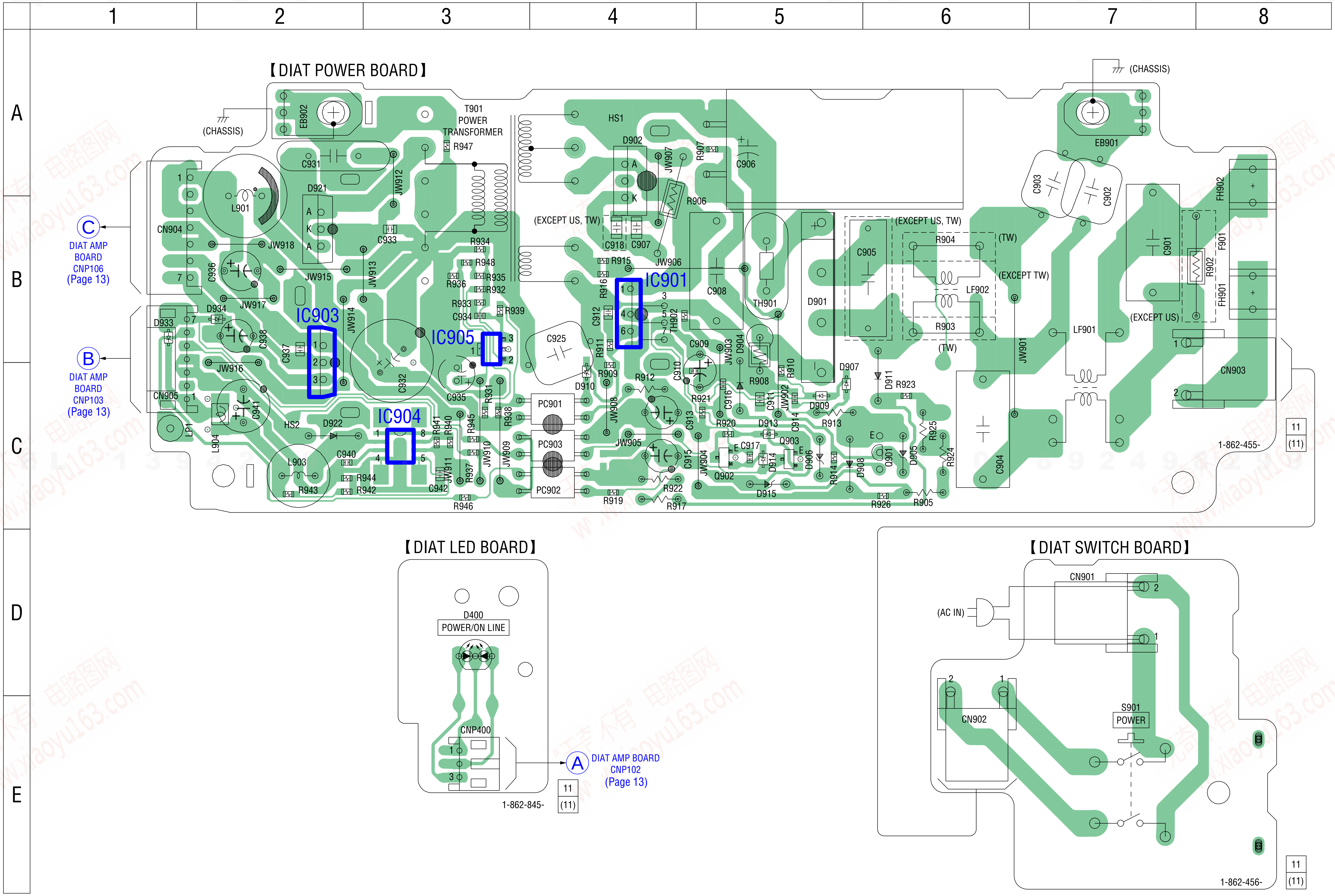
• **Semiconductor Location**

Ref. No.	Location
D102	B-8
D110	B-9
IC101	C-8
IC102	C-7
IC103	B-7
IC104	C-6
IC105	B-9
IC106	B-7
IC107	B-8
IC109	C-6
IC110	C-4
IC111	B-5
IC112	B-4
IC113	A-5
IC114	B-5
Q102	B-9
Q105	B-2
Q107	A-3
Q108	C-2
Q111	A-8
Q112	A-8

3-7. PRINTED WIRING BOARDS – POWER SUPPLY Section – :Uses unleaded solder.

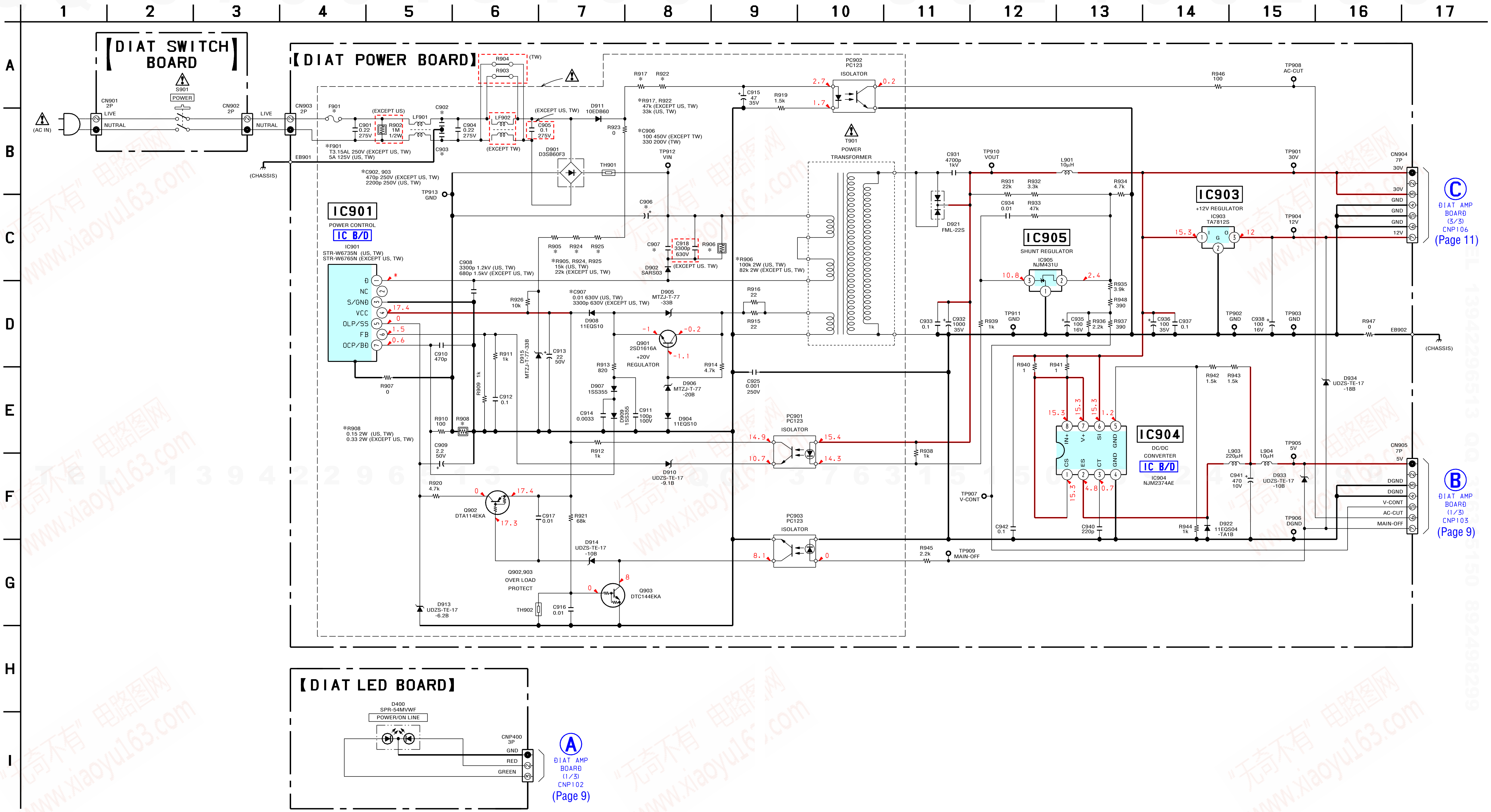
• Semiconductor Location

Ref. No.	Location
D400	D-3
D901	B-5
D902	A-4
D904	C-5
D905	C-6
D906	C-5
D907	C-5
D908	C-5
D909	C-5
D910	C-4
D911	C-6
D913	C-5
D914	C-5
D915	C-5
D921	B-2
D922	C-2
D933	B-1
D934	B-2
IC901	B-4
IC903	B-2
IC904	C-3
IC905	B-3
Q901	C-6
Q902	C-5
Q903	C-5



3-8. SCHEMATIC DIAGRAM – POWER SUPPLY Section –

• See page 16 for IC Block Diagrams.

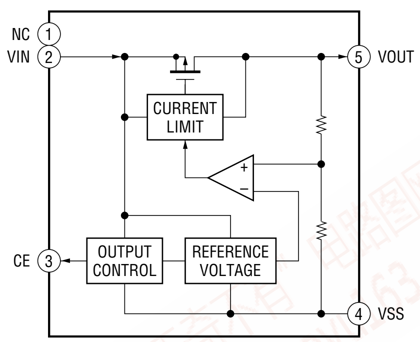


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

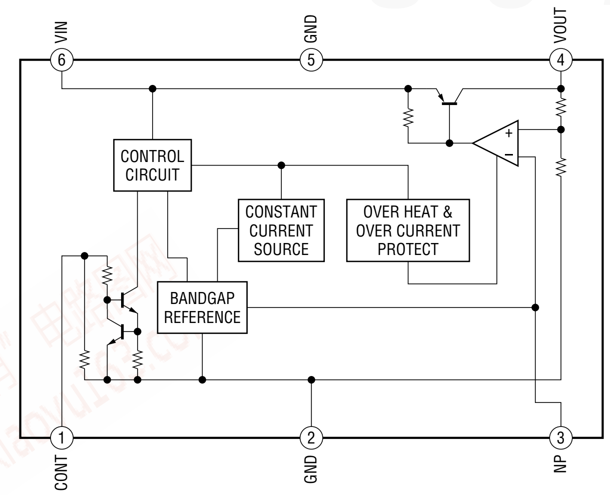
- **IC Block Diagrams**

– DIAT AMP Board –

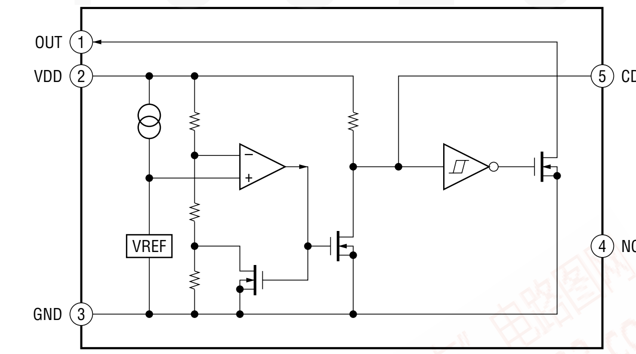
IC101 XC62HR1502MR



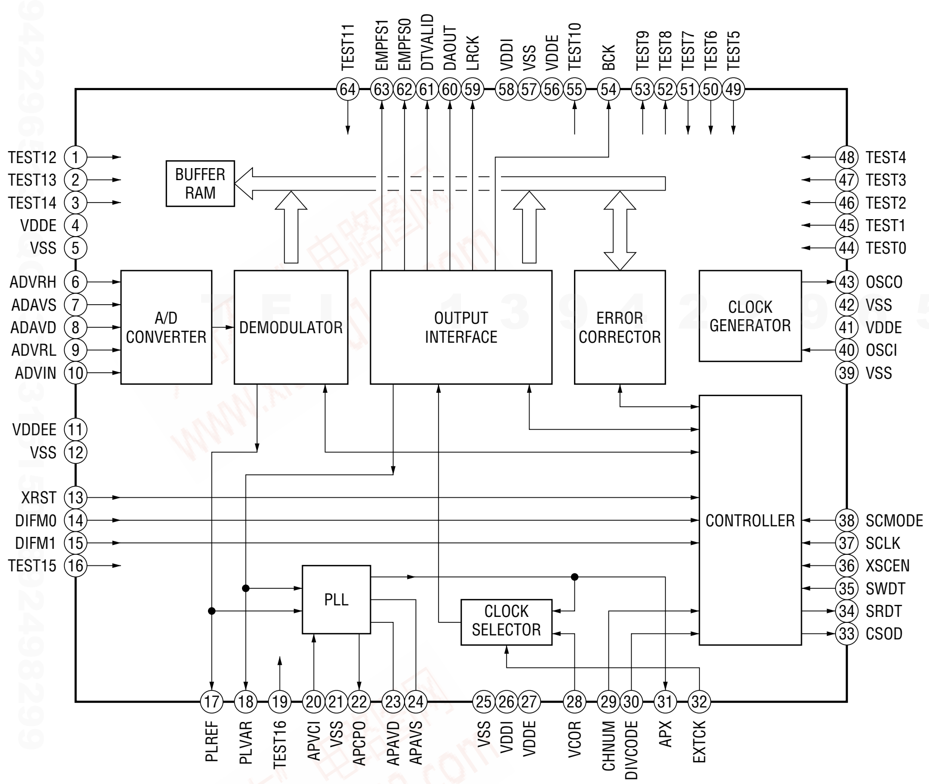
IC104 TK11225CMCL-G



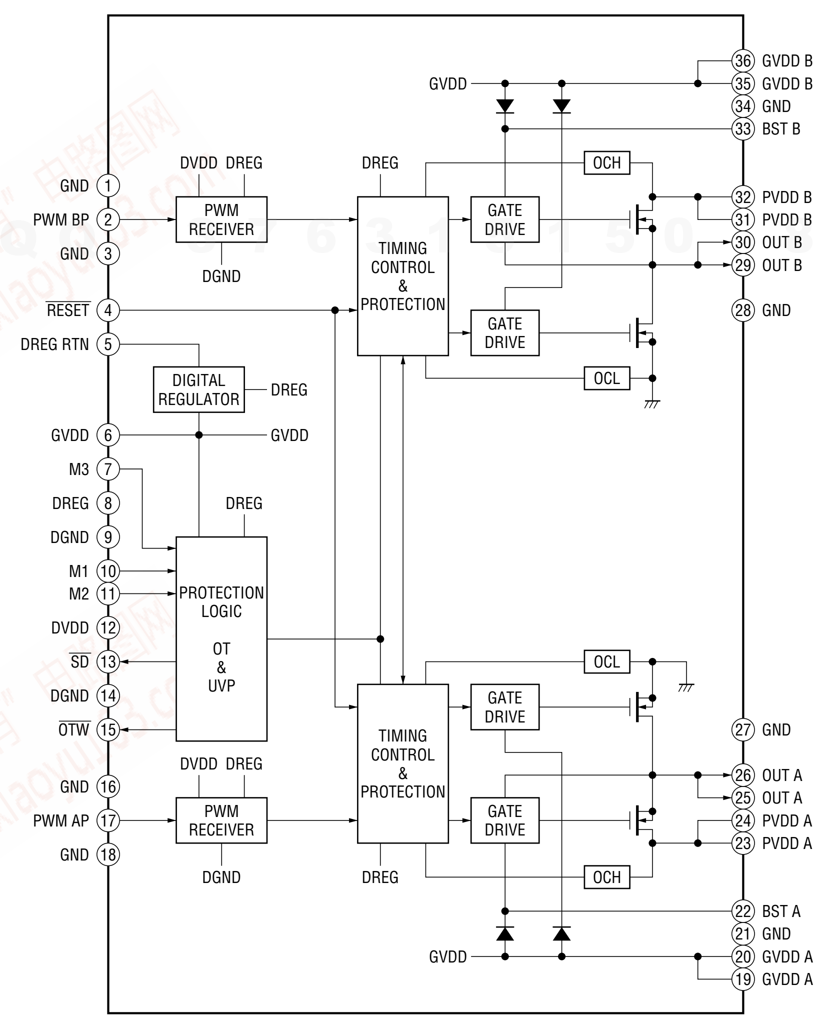
IC105 PST3629NR



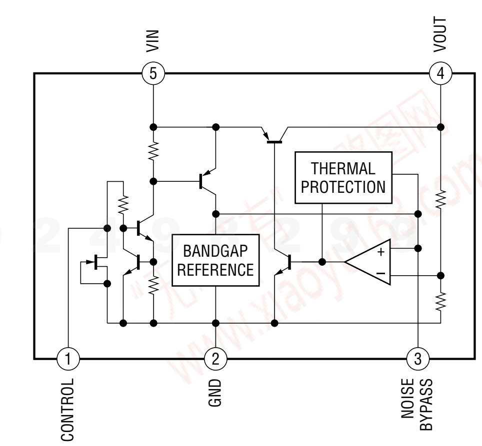
IC102 CXD4017R



IC110, 112 CXD9774M

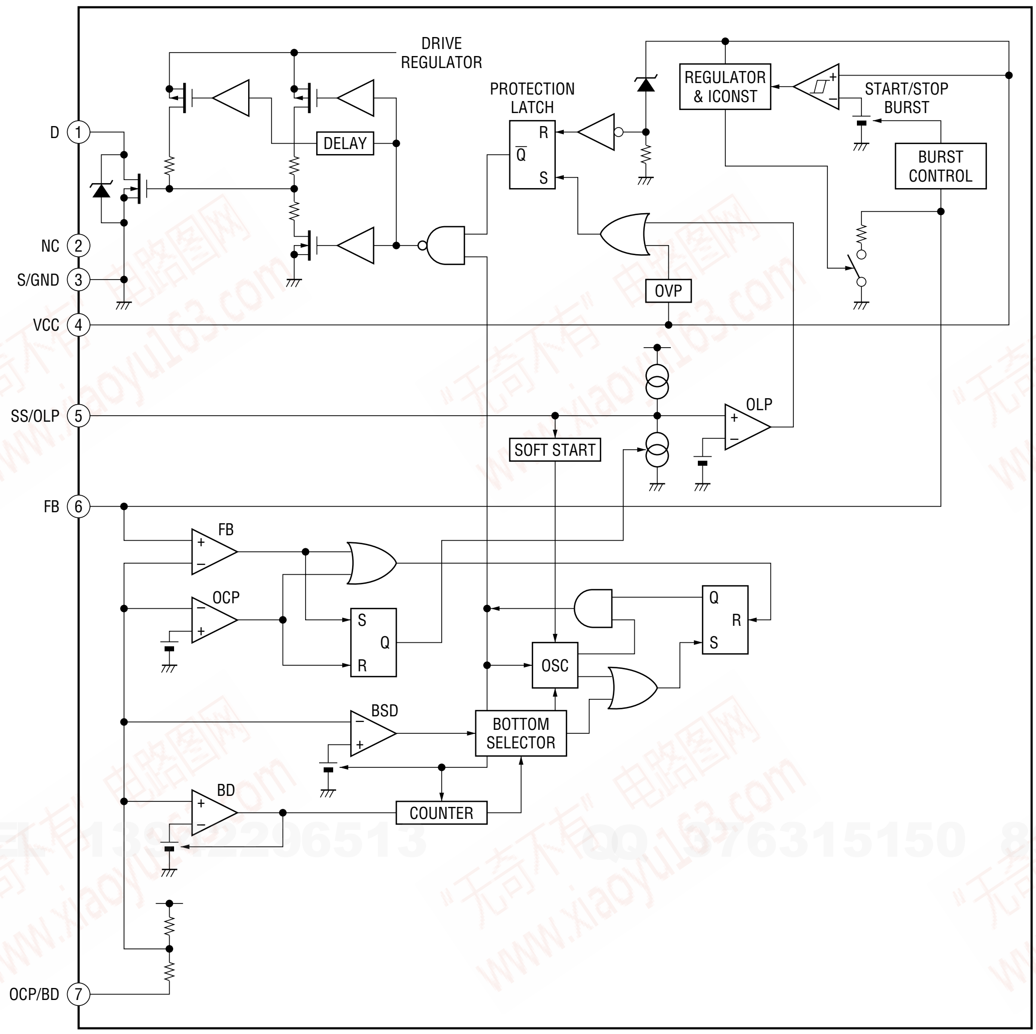


IC113 NJM2870F18 (TE2)

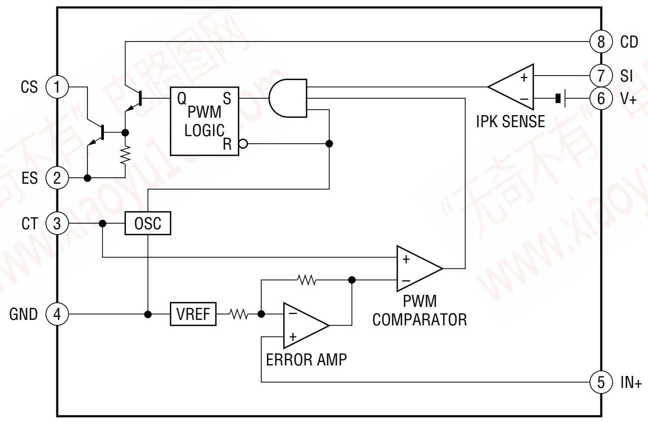


– DIAT POWER Board –

IC901 STR-W6765N



IC904 NJM2374AE (TE2)



• **IC Pin Function Description**

DIAT AMP BOARD IC107 MB89537APFM-G-565-BNDE1 (SURROUND AMP CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	NC	O	Not used
2	MOD2	I	Setting terminal for the CPU operation mode Fixed at "L" in this set
3, 4	NC	O	Not used
5	MODEL	I	Setting terminal for the model
6	SIMUKE	I	Setting terminal for the destination
7 to 10	NC	O	Not used
11	AVCC	-	Power supply terminal (+3.3V) (for A/D converter)
12	AVR	I	Reference voltage (+3.3V) input terminal (for A/D converter)
13	AVSS	-	Ground terminal (for A/D converter)
14	DTVALID	I	Data valid flag input from the RF demodulator "L": invalid, "H": valid
15	CSOD	I	Captor start delay signal input from the RF demodulator "H" active
16	NC	I	Not used
17	AC CUT	I	AC cut detection signal input terminal "L": AC cut
18	NC	I	Not used
19	/RESET	I	Reset signal input terminal "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
20, 21	MOD0, MOD1	I	CPU operation mode setting signal input terminal
22	X0	I	Main system clock input terminal (8 MHz)
23	X1	O	Main system clock output terminal (8 MHz)
24	VSS	-	Ground terminal
25	FS2_EX	I	Not used
26	XRST_INIT	O	Reset signal output to the RF demodulator and stream processor "L": reset
27, 28	NC	O	Not used
29	P23	I	Setting terminal for the CPU operation mode Fixed at "L" in this set
30	P22	I	Setting terminal for the CPU operation mode Fixed at "H" in this set
31, 32	NC	O	Not used
33	DAMP_PGMUTE	O	PG muting on/off control signal output to the stream processor "L": muting on
34	DAMP_SOFTMUTE	O	Soft muting on/off control signal output to the stream processor "L": muting on
35	DAMP_NSPMUTE	O	NSP muting on/off control signal output to the stream processor "L": muting on
36	NC	O	Not used
37	DRIVE_RST	O	Reset signal output to the power driver "L": reset
38	DRIVE_OCP	I	Shut down state input from the power driver "L": shut down
39	DRIVE_OTW	I	Overtemperature warning signal input terminal Not used
40	P10	I	Setting terminal for the CPU operation mode Fixed at "H" in this set
41	LED_GREEN	O	LED drive signal output of the ON LINE indicator "H": LED on
42	LED_RED	O	LED drive signal output of the POWER indicator "H": LED on
43 to 47	NC	O	Not used
48	SCMODE	O	Control mode selection signal output to the RF demodulator "L": pin setting, "H": serial setting
49	NC	-	Not used
50	XSCEN	O	Serial interface enable signal output to the RF demodulator
51	DIAT_SCLK	O	Serial interface data clock signal output to the RF demodulator
52	DIAT_SWDT	O	Serial interface data write signal output to the RF demodulator
53	DIAT_SRDT	I	Serial interface data read signal input from the RF demodulator
54	NC	O	Not used

Pin No.	Pin Name	I/O	Description
55	T_SENSE	O	Not used
56	VCC	-	Power supply terminal (+3.3V)
57	MAIN_OFF	O	Power off control signal output to the power control "H": power off
58	V_CONT	O	Voltage control PWM signal output to the shunt regulator
59	DAMP_LATCH	O	Latch control signal output to the stream processor
60	DAMP_SHIFT	O	Shift clock signal output to the stream processor
61	DAMP_SCDT	O	Serial data output to the stream processor
62	SI2	I	Serial data input terminal
63	INT24	O	Not used
64	NC	O	Not used

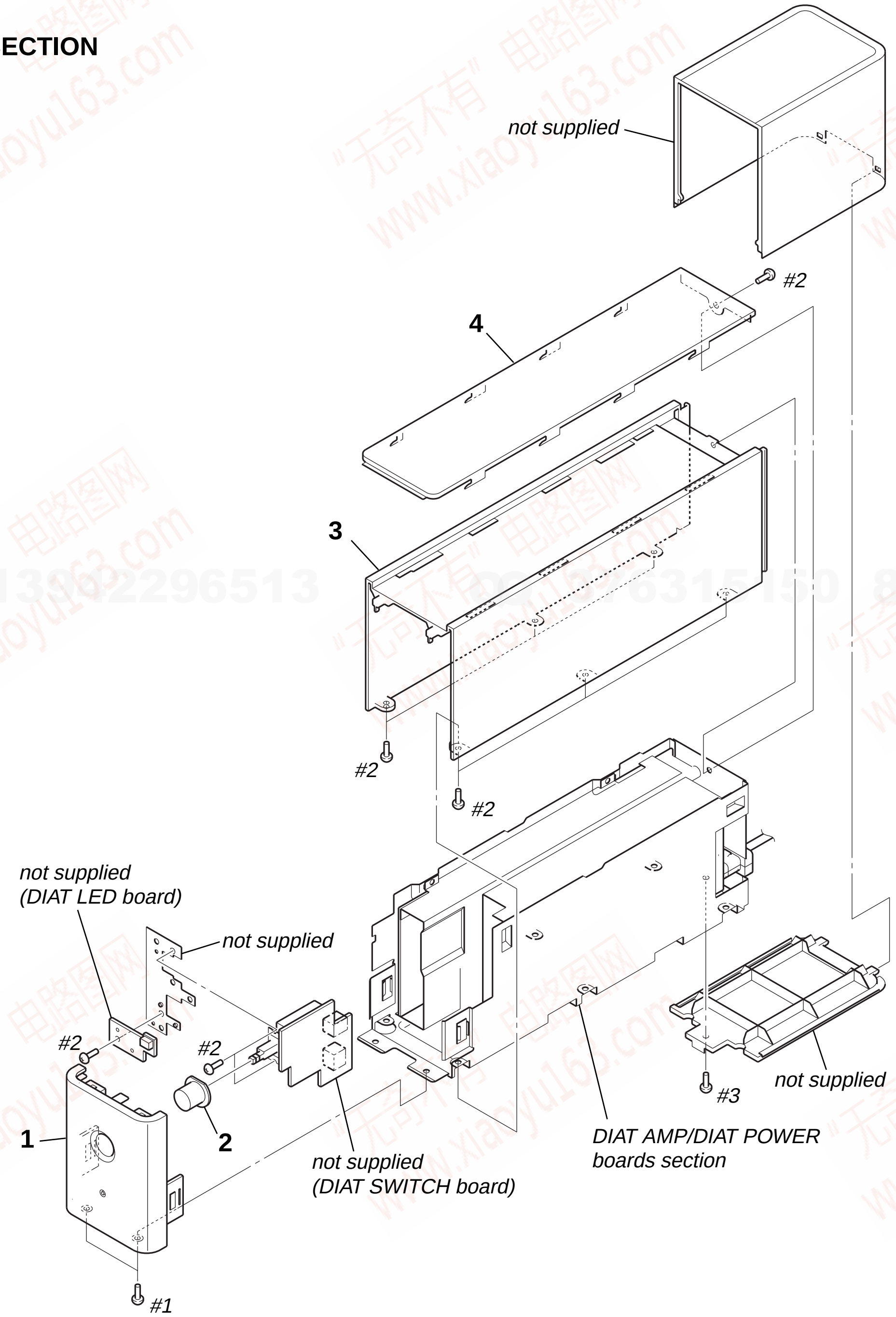
SECTION 4
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Abbreviation
  AUS : Australian model
  HK : Hong Kong model
  KR : Korean model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

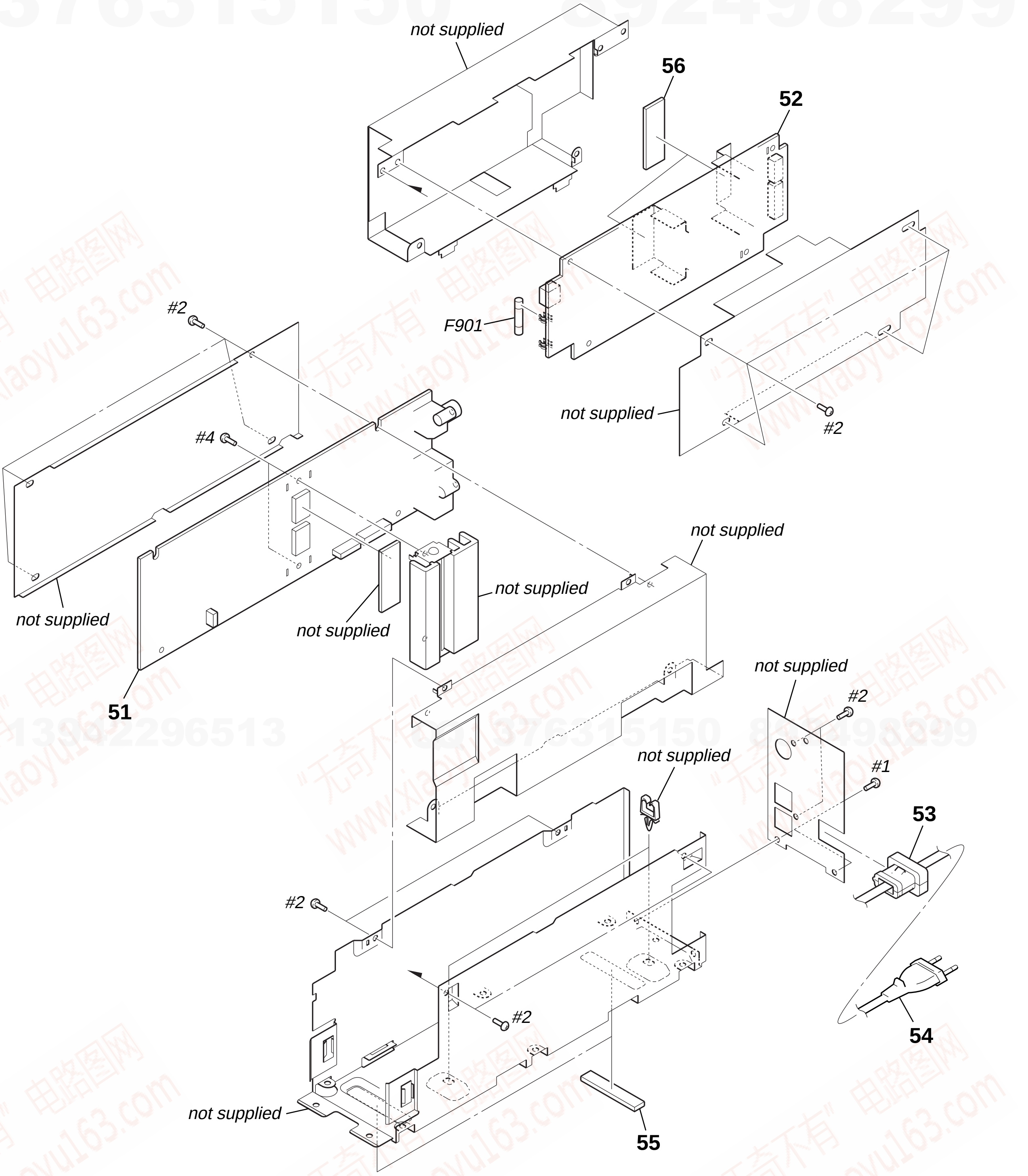
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-1. PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-2022-678-1	FRONT SUB ASSY (EXCEPT US)	
1	X-2050-558-1	FRONT SUB ASSY (US)	
2	2-149-268-01	BUTTON, POWER	
3	2-149-270-01	PANEL, SIDE (EXCEPT US)	
3	2-149-270-11	SIDE, PANEL (US)	
4	2-149-269-01	PANEL, TOP	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#2	7-685-133-19	SCREW (DIA. 2.6) (IT3B)	
#3	7-682-548-09	+B 3X8	

4-2. DIAT AMP/DIAT POWER BOARDS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
51	A-1068-892-A	DIAT AMP BOARD, COMPLETE	
52	A-1067-416-A	DIAT POWER BOARD, COMPLETE (TW)	
52	A-1068-894-A	DIAT POWER BOARD, COMPLETE (EXCEPT US, TW)	
52	A-1079-747-A	DIAT POWER BOARD, COMPLETE (US)	
53	4-217-350-11	STOPPER, CORD	
⚠54	1-696-169-31	CORD, POWER (AEP, UK, RU, HK, SP)	
⚠54	1-696-847-22	CORD, POWER (AUS)	
⚠54	1-769-079-32	CORD, POWER (KR)	
⚠54	1-783-531-72	CORD, POWER (US)	
⚠54	1-827-597-41	CORD, POWER (TW)	
55	2-149-284-01	FOOT	
56	4-254-954-01	SHEET (DMB), RADIATION	
⚠F901	1-532-465-33	FUSE (T3.15AL/250V) (EXCEPT US, TW)	
⚠F901	1-533-420-12	FUSE, GLASS CYLINDRICAL (DIA. 5) (5A/125V) (US)	
⚠F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V) (TW)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#2	7-685-133-19	SCREW (DIA. 2.6) (IT3B)	
#4	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

SECTION 5
ELECTRICAL PARTS LIST

DIAT AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  TW : Taiwan model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA... : μA... uPA... : μPA...
  uPB... : μPB... uPC... : μPC...
  uPD... : μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-1068-892-A	DIAT AMP BOARD, COMPLETE			
		**************************			
		< CAPACITOR >			
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C104	1-126-947-11	ELECT	47uF	20%	35V
C105	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C107	1-126-947-11	ELECT	47uF	20%	35V
C108	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C109	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C111	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C114	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C115	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C119	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C120	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C122	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C123	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C124	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C125	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C126	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C127	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C128	1-126-947-11	ELECT	47uF	20%	35V
C129	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C132	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C134	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C135	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C136	1-126-947-11	ELECT	47uF	20%	35V
C137	1-126-964-11	ELECT	10uF	20%	50V
C138	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C140	1-126-964-11	ELECT	10uF	20%	50V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C143	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C145	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C147	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C148	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-104-665-11	ELECT	100uF	20%	25V
C151	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C152	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C153	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C154	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C155	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C156	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C157	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C158	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C159	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C161	1-126-933-11	ELECT	100uF	20%	16V
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C163	1-104-665-11	ELECT	100uF	20%	25V
C165	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C166	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C167	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C168	1-126-947-11	ELECT	47uF	20%	35V
C169	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C170	1-164-346-11	CERAMIC CHIP	1uF		16V
C171	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C172	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C173	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C174	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C175	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C176	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C177	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C178	1-126-947-11	ELECT	47uF	20%	35V
C179	1-126-947-11	ELECT	47uF	20%	35V
C180	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C181	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C182	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C183	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C184	1-136-177-00	FILM	1uF	5%	50V
C185	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C186	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C187	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C188	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C189	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C190	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C191	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V

DIAT AMP

Ref. No.	Part No.	Description			Remark
C192	1-136-177-00	FILM	1uF	5%	50V
C193	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C194	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C195	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C196	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C197	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C198	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C199	1-107-898-21	ELECT	2200uF	20%	35V
C200	1-164-346-11	CERAMIC CHIP	1uF		16V
C201	1-164-346-11	CERAMIC CHIP	1uF		16V
C202	1-126-947-11	ELECT	47uF	20%	35V
C203	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C205	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C206	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C207	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C208	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C209	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C210	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C211	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C212	1-136-177-00	FILM	1uF	5%	50V
C213	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C214	1-126-933-11	ELECT	100uF	20%	16V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C216	1-136-177-00	FILM	1uF	5%	50V
C217	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C218	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C219	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C220	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C221	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C222	1-125-898-91	CERAMIC CHIP	0.22uF	10%	50V
C223	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C224	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C225	1-126-933-11	ELECT	100uF	20%	16V
C226	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C227	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C228	1-104-665-11	ELECT	100uF	20%	25V
C229	1-126-933-11	ELECT	100uF	20%	16V
C230	1-104-662-91	ELECT	22uF	20%	25V
C231	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C232	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C234	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C235	1-107-898-21	ELECT	2200uF	20%	35V
C236	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C237	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C238	1-164-346-11	CERAMIC CHIP	1uF		16V
C240	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C242	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C243	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C244	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C253	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C256	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C257	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C258	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C259	1-162-974-11	CERAMIC CHIP	0.01uF		50V

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D102	8-719-404-50	DIODE MA111-TX	
D104	6-500-885-01	DIODE P6SMBJ33A-5	
D105	6-500-885-01	DIODE P6SMBJ33A-5	
D106	6-500-885-01	DIODE P6SMBJ33A-5	
D107	6-500-885-01	DIODE P6SMBJ33A-5	
D110	8-719-988-61	DIODE 1SS355TE-17	
D115	8-719-421-15	DIODE MA8027-L	
		< GROUND TERMINAL BOARD >	
EB101	1-537-770-21	TERMINAL BOARD, GROUND	
EB102	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB101	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB102	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB103	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB104	1-500-283-11	INDUCTOR, FERRITE BEAD	
FB105	1-469-760-21	FERRITE, EMI (SMD) (2012)	
FB106	1-469-760-21	FERRITE, EMI (SMD) (2012)	
FB107	1-469-760-21	FERRITE, EMI (SMD) (2012)	
FB108	1-469-760-21	FERRITE, EMI (SMD) (2012)	
FB109	1-469-760-21	FERRITE, EMI (SMD) (2012)	
		< IC >	
IC101	6-701-851-01	IC XC62HR1502MR	
IC102	8-752-425-06	IC CXD4017R	
IC103	8-759-491-47	IC TC74VHCT08AFT (EL)	
IC104	6-704-261-01	IC TK11225CMCL-G	
IC105	6-701-680-01	IC PST3629NR	
IC106	8-759-491-47	IC TC74VHCT08AFT (EL)	
IC107	6-804-310-01	IC MB89537APFM-G-565-BNDE-1	
IC108	8-759-583-47	IC uPC2933T-E2	
IC109	8-759-491-47	IC TC74VHCT08AFT (EL)	
IC110	6-704-802-01	IC CXD9774M	
IC111	6-705-979-01	IC CXD9788AR	
IC112	6-704-802-01	IC CXD9774M	
IC113	6-700-263-01	IC NJM2870F18 (TE2)	
IC114	6-701-189-01	IC MC74VHC1GU04DFT1	
		< JACK >	
J100	1-818-633-11	JACK, PIN 1P (DIR-R1)	
		< COIL >	
L101	1-400-305-11	INDUCTOR 47uH	
L102	1-469-525-11	INDUCTOR 10uH	
L103	1-469-525-11	INDUCTOR 10uH	
L104	1-469-525-11	INDUCTOR 10uH	
L105	1-469-525-11	INDUCTOR 10uH	
L106	1-469-525-11	INDUCTOR 10uH	
L107	1-469-525-11	INDUCTOR 10uH	
L108	1-469-525-11	INDUCTOR 10uH	
L109	1-469-525-11	INDUCTOR 10uH	
L110	1-469-525-11	INDUCTOR 10uH	
L111	1-469-525-11	INDUCTOR 10uH	
L112	1-456-680-11	INDUCTOR 10uH	
L115	1-456-680-11	INDUCTOR 10uH	

DIAT AMP

Ref. No.	Part No.	Description			Remark
L116	1-469-525-11	INDUCTOR	10uH		
L118	1-456-680-11	INDUCTOR	10uH		
L121	1-456-680-11	INDUCTOR	10uH		
L122	1-412-939-11	INDUCTOR	1uH		
		< TRANSISTOR >			
Q102	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q103	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q104	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q105	8-729-602-36	TRANSISTOR	2SA1602-F		
Q106	8-729-602-36	TRANSISTOR	2SA1602-F		
Q107	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q108	8-729-602-36	TRANSISTOR	2SA1602-F		
Q109	8-729-602-36	TRANSISTOR	2SA1602-F		
Q110	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q111	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q112	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
		< RESISTOR >			
R100	1-216-811-11	METAL CHIP	150	5%	1/10W
R101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R102	1-216-820-11	METAL CHIP	820	5%	1/10W
R103	1-216-815-11	METAL CHIP	330	5%	1/10W
R104	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-809-11	METAL CHIP	100	5%	1/10W
R109	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R110	1-216-821-11	METAL CHIP	1K	5%	1/10W
R111	1-216-813-11	METAL CHIP	220	5%	1/10W
R112	1-216-809-11	METAL CHIP	100	5%	1/10W
R113	1-216-809-11	METAL CHIP	100	5%	1/10W
R114	1-216-809-11	METAL CHIP	100	5%	1/10W
R115	1-216-809-11	METAL CHIP	100	5%	1/10W
R116	1-216-807-11	METAL CHIP	68	5%	1/10W
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R119	1-216-821-11	METAL CHIP	1K	5%	1/10W
R120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R121	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R123	1-216-837-11	METAL CHIP	22K	5%	1/10W
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R125	1-216-811-11	METAL CHIP	150	5%	1/10W
R126	1-216-821-11	METAL CHIP	1K	5%	1/10W
R127	1-216-841-11	METAL CHIP	47K	5%	1/10W
R128	1-216-833-11	METAL CHIP	10K	5%	1/10W
R129	1-216-809-11	METAL CHIP	100	5%	1/10W
R131	1-216-841-11	METAL CHIP	47K	5%	1/10W
R135	1-216-833-11	METAL CHIP	10K	5%	1/10W
R136	1-216-809-11	METAL CHIP	100	5%	1/10W
R137	1-216-809-11	METAL CHIP	100	5%	1/10W
R138	1-216-809-11	METAL CHIP	100	5%	1/10W
R139	1-216-809-11	METAL CHIP	100	5%	1/10W
R140	1-216-809-11	METAL CHIP	100	5%	1/10W
R141	1-216-809-11	METAL CHIP	100	5%	1/10W
R142	1-216-809-11	METAL CHIP	100	5%	1/10W
R143	1-216-864-11	SHORT CHIP	0		
R144	1-216-809-11	METAL CHIP	100	5%	1/10W
R145	1-216-809-11	METAL CHIP	100	5%	1/10W
R146	1-216-809-11	METAL CHIP	100	5%	1/10W
R147	1-216-809-11	METAL CHIP	100	5%	1/10W
R148	1-216-809-11	METAL CHIP	100	5%	1/10W
R149	1-216-809-11	METAL CHIP	100	5%	1/10W
R150	1-216-809-11	METAL CHIP	100	5%	1/10W
R151	1-216-809-11	METAL CHIP	100	5%	1/10W
R152	1-216-809-11	METAL CHIP	100	5%	1/10W
R153	1-216-845-11	METAL CHIP	100K	5%	1/10W
R154	1-216-845-11	METAL CHIP	100K	5%	1/10W
R155	1-216-845-11	METAL CHIP	100K	5%	1/10W
R156	1-216-845-11	METAL CHIP	100K	5%	1/10W
R157	1-216-845-11	METAL CHIP	100K	5%	1/10W
R158	1-216-845-11	METAL CHIP	100K	5%	1/10W
R159	1-216-845-11	METAL CHIP	100K	5%	1/10W
R160	1-216-809-11	METAL CHIP	100	5%	1/10W
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R162	1-216-809-11	METAL CHIP	100	5%	1/10W
R163	1-216-809-11	METAL CHIP	100	5%	1/10W
R164	1-216-864-11	SHORT CHIP	0		
R165	1-216-821-11	METAL CHIP	1K	5%	1/10W
R166	1-216-864-11	SHORT CHIP	0		
R167	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R168	1-216-864-11	SHORT CHIP	0		
R169	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R171	1-216-841-11	METAL CHIP	47K	5%	1/10W
R172	1-216-809-11	METAL CHIP	100	5%	1/10W
R173	1-216-818-11	METAL CHIP	560	5%	1/10W
R174	1-216-864-11	SHORT CHIP	0		
R175	1-216-818-11	METAL CHIP	560	5%	1/10W
R176	1-216-864-11	SHORT CHIP	0		
R177	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R178	1-216-809-11	METAL CHIP	100	5%	1/10W
R179	1-216-864-11	SHORT CHIP	0		
R180	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R181	1-216-818-11	METAL CHIP	560	5%	1/10W
R183	1-216-818-11	METAL CHIP	560	5%	1/10W
R184	1-216-864-11	SHORT CHIP	0		
R185	1-216-864-11	SHORT CHIP	0		
R186	1-216-864-11	SHORT CHIP	0		
R187	1-216-864-11	SHORT CHIP	0		
R188	1-216-864-11	SHORT CHIP	0		
R189	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R190	1-216-864-11	SHORT CHIP	0		
R191	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R192	1-216-864-11	SHORT CHIP	0		
R193	1-216-864-11	SHORT CHIP	0		
R194	1-216-801-11	METAL CHIP	22	5%	1/10W
R195	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R196	1-216-809-11	METAL CHIP	100	5%	1/10W
R197	1-216-864-11	SHORT CHIP	0		
R198	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R199	1-216-845-11	METAL CHIP	100K	5%	1/10W
R200	1-216-857-11	METAL CHIP	1M	5%	1/10W
R201	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R203	1-216-864-11	SHORT CHIP	0		
R204	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R208	1-216-833-11	METAL CHIP	10K	5%	1/10W
R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R210	1-216-833-11	METAL CHIP	10K	5%	1/10W
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R212	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R213	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R214	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R215	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R216	1-216-833-11	METAL CHIP	10K	5%	1/10W
R217	1-216-833-11	METAL CHIP	10K	5%	1/10W
R218	1-216-833-11	METAL CHIP	10K	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-809-11	METAL CHIP	100	5%	1/10W
R222	1-216-809-11	METAL CHIP	100	5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-833-11	METAL CHIP	10K	5%	1/10W
R253	1-216-841-11	METAL CHIP	47K	5%	1/10W
R254	1-216-833-11	METAL CHIP	10K	5%	1/10W
R256	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R257	1-216-841-11	METAL CHIP	47K	5%	1/10W
R258	1-216-841-11	METAL CHIP	47K	5%	1/10W
R259	1-216-821-11	METAL CHIP	1K	5%	1/10W
R260	1-216-809-11	METAL CHIP	100	5%	1/10W
R261	1-216-809-11	METAL CHIP	100	5%	1/10W
R262	1-216-809-11	METAL CHIP	100	5%	1/10W
R263	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R311	1-216-864-11	SHORT CHIP	0		
R312	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R313	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R314	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< TRANSFORMER >			
T100	1-780-145-11	TERMINAL BOARD (SPEAKER)			
		< VIBRATOR >			
X101	1-795-485-21	VIBRATOR, CRYSTAL (SMD) (12.288MHz)			
X102	1-795-313-21	VIBRATOR, CERAMIC (8MHz)			
X103	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)			

****

DIAT LED BOARD
****

Ref. No.	Part No.	Description
		< LED >
D400	8-719-920-55	LED SPR-54MVW (POWER/ON LINE)

****

Ref. No.	Part No.	Description			Remark
	A-1067-416-A	DIAT POWER BOARD, COMPLETE (TW)			
	A-1068-894-A	DIAT POWER BOARD, COMPLETE			(EXCEPT US, TW)
	A-1079-747-A	DIAT POWER BOARD, COMPLETE (US)			
		***************************			
	1-533-313-11	FUSE HOLDER			
	7-685-871-01	SCREW +BVTT 3X6 (S)			
		< CAPACITOR >			
⚠C901	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C902	1-113-900-11	CERAMIC	470PF	10%	250V (EXCEPT US, TW)
⚠C902	1-113-907-51	CERAMIC	0.0022uF	20%	250V (US, TW)
⚠C903	1-113-900-11	CERAMIC	470PF	10%	250V (EXCEPT US, TW)
⚠C903	1-113-907-51	CERAMIC	0.0022uF	20%	250V (US, TW)
⚠C904	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C905	1-165-528-11	MYLAR	0.1uF	10	275V (EXCEPT US, TW)
⚠C906	1-100-922-11	ELECT	330uF	20%	200V (TW)
⚠C906	1-100-923-11	ELECT	100uF	20%	450V (EXCEPT TW)
⚠C907	1-165-883-11	CERAMIC CHIP	10000PF	10%	630V (US, TW)
⚠C907	1-165-886-11	CERAMIC CHIP	3300PF	10%	630V (EXCEPT US, TW)
⚠C908	1-117-631-31	FILM	3300PF	3%	1.2KV (US, TW)
⚠C908	1-125-893-11	FILM	680PF	3%	1.5KV (EXCEPT US, TW)
⚠C909	1-107-903-11	ELECT	2.2uF	20%	50V
⚠C910	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
⚠C911	1-164-162-11	CERAMIC CHIP	100PF	5%	100V
⚠C912	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
⚠C913	1-107-907-11	ELECT	22uF	20%	50V
⚠C914	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
⚠C915	1-107-909-11	ELECT	47uF	20%	50V
⚠C916	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
⚠C917	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
⚠C918	1-165-886-11	CERAMIC CHIP	3300PF	10%	630V (EXCEPT US, TW)
⚠C925	1-117-699-11	CERAMIC	0.001uF	99%	250V
C931	1-125-782-91	CERAMIC	4700PF	10%	1KV
C932	1-128-959-21	ELECT	1000uF	20%	35V
C933	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C934	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C935	1-126-933-11	ELECT	100uF	20%	16V
C936	1-126-948-11	ELECT	100uF	20%	35V
C937	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C938	1-126-933-11	ELECT	100uF	20%	16V
C940	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C941	1-135-372-31	ELECT	470uF	20%	10V
C942	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
		< CONNECTOR >			
* CN903	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CN904	1-564-522-11	PLUG, CONNECTOR 7P			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

DIAT POWER

Ref. No.	Part No.	Description	Remark
CN905	1-564-723-11	PIN, CONNECTOR (SMALL TYPE) 7P	
		< DIODE >	
⚠D901	8-719-077-77	DIODE D3SB60F3	
⚠D902	6-500-241-01	DIODE SARS03	
⚠D904	8-719-200-91	DIODE 11EQS10	
⚠D905	8-719-982-26	DIODE MTZJ-33B	
⚠D906	8-719-110-53	DIODE RD20ESB2	
⚠D907	8-719-988-61	DIODE 1SS355TE-17	
⚠D908	8-719-200-91	DIODE 11EQS10	
⚠D909	8-719-988-61	DIODE 1SS355TE-17	
⚠D910	8-719-069-60	DIODE UDZSTE-179.1B	
⚠D911	6-500-593-31	DIODE 10EDB60-TA1B2	
⚠D913	8-719-069-56	DIODE UDZSTE-176.2B	
⚠D914	8-719-977-28	DIODE DTZ10B	
⚠D915	8-719-982-26	DIODE MTZJ-33B	
D921	8-719-313-14	DIODE FML-22S	
D922	8-719-210-21	DIODE 11EQS04	
D933	8-719-977-28	DIODE DTZ10B	
D934	8-719-083-66	DIODE UDZSTE-1718B	
		< GROUND TERMINAL BOARD >	
EB901	1-537-770-21	TERMINAL BOARD, GROUND	
EB902	1-537-770-21	TERMINAL BOARD, GROUND	
		< IC >	
⚠IC901	6-706-347-01	IC STR-W6735N (US, TW)	
⚠IC901	6-706-348-01	IC STR-W6765N (EXCEPT US, TW)	
IC903	8-759-231-58	IC TA7812S	
IC904	6-703-978-01	IC NJM2374AE (TE2)	
IC905	8-759-710-88	IC NJM431U	
		< COIL >	
L901	1-456-509-11	INDUCTOR 10uH	
L903	1-416-040-11	INDUCTOR 220uH	
L904	1-414-398-11	INDUCTOR 10uH	
		< LINE FILTER >	
⚠LF901	1-419-785-11	COIL, LINE FILTER (EXCEPT US, TW)	
⚠LF901	1-419-889-11	COIL, LINE FILTER (US, TW)	
⚠LF902	1-419-785-11	COIL, LINE FILTER (EXCEPT TW)	
		< PHOTO COUPLER >	
⚠PC901	6-600-187-01	PHOTO COUPLER PC123Y22JOOF	
⚠PC902	6-600-187-01	PHOTO COUPLER PC123Y22JOOF	
⚠PC903	6-600-187-01	PHOTO COUPLER PC123Y22JOOF	
		< TRANSISTOR >	
⚠Q901	8-729-142-51	TRANSISTOR 2SD1616A-TP-LK	
⚠Q902	8-729-027-23	TRANSISTOR DTA114EKA-T146	
⚠Q903	8-729-027-59	TRANSISTOR DTC144EKA-T146	
		< RESISTOR >	
⚠R902	1-219-759-11	METAL 1M 5% 1/2W F	(EXCEPT US)
⚠R905	1-249-431-11	CARBON 15K 5% 1/4W	(US, TW)
⚠R905	1-249-433-11	CARBON 22K 5% 1/4W	(EXCEPT US, TW)
⚠R906	1-215-904-11	METAL OXIDE 100K 5% 2W F	(US, TW)
⚠R906	1-216-468-11	METAL OXIDE 82K 5% 2W F	(EXCEPT US, TW)
⚠R907	1-216-864-11	SHORT CHIP 0	
⚠R908	1-216-363-00	METAL OXIDE 0.33 5% 2W F	(EXCEPT US, TW)
⚠R908	1-245-695-61	METAL OXIDE 0.15 5% 2W F	(US, TW)
⚠R909	1-216-821-11	METAL CHIP 1K 5% 1/10W	
⚠R910	1-216-809-11	METAL CHIP 100 5% 1/10W	
⚠R911	1-216-821-11	METAL CHIP 1K 5% 1/10W	
⚠R912	1-249-417-11	CARBON 1K 5% 1/4W	
⚠R913	1-249-416-11	CARBON 820 5% 1/4W	
⚠R914	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
⚠R915	1-216-801-11	METAL CHIP 22 5% 1/10W	
⚠R916	1-216-801-11	METAL CHIP 22 5% 1/10W	
⚠R917	1-249-435-11	CARBON 33K 5% 1/4W	(US, TW)
⚠R917	1-249-437-11	CARBON 47K 5% 1/4W	(EXCEPT US, TW)
⚠R919	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
⚠R920	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
⚠R921	1-216-843-11	METAL CHIP 68K 5% 1/10W	
⚠R922	1-249-435-11	CARBON 33K 5% 1/4W	(US, TW)
⚠R922	1-249-437-11	CARBON 47K 5% 1/4W	(EXCEPT US, TW)
⚠R923	1-216-864-11	SHORT CHIP 0	
⚠R924	1-249-431-11	CARBON 15K 5% 1/4W	(US, TW)
⚠R924	1-249-433-11	CARBON 22K 5% 1/4W	(EXCEPT US, TW)
⚠R925	1-249-431-11	CARBON 15K 5% 1/4W	(US, TW)
⚠R925	1-249-433-11	CARBON 22K 5% 1/4W	(EXCEPT US, TW)
⚠R926	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R931	1-218-724-11	METAL CHIP 22K 0.5% 1/10W	
R932	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R933	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R934	1-218-708-11	METAL CHIP 4.7K 0.5% 1/10W	
R935	1-218-706-11	METAL CHIP 3.9K 0.5% 1/10W	
R936	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R937	1-216-816-11	METAL CHIP 390 5% 1/10W	
R938	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R939	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R940	1-218-446-11	METAL CHIP 1 5% 1/10W	
R941	1-218-446-11	METAL CHIP 1 5% 1/10W	
R942	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R943	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R944	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R945	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R946	1-216-809-11	METAL CHIP 100 5% 1/10W	
R947	1-216-864-11	SHORT CHIP 0	
R948	1-216-816-11	METAL CHIP 390 5% 1/10W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		< TRANSFORMER >	
⚠T901	1-443-321-11	TRANSFORMER, DC CONVERTER (US, TW)	
⚠T901	1-443-322-11	TRANSFORMER, DC CONVERTER (EXCEPT US, TW)	
		< THERMISTOR >	
⚠TH901	1-803-916-11	THERMISTOR, NTC	
⚠TH902	1-805-553-21	THERMISTOR, POSITIVE	

****

DIAT SWITCH BOARD
****

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN901	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P	
* CN902	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P	
		< SWITCH >	
⚠S901	1-571-433-31	SWITCH, PUSH (AC POWER) (POWER)	

****

MISCELLANEOUS
****

Ref. No.	Part No.	Description	Remark
⚠54	1-696-169-31	CORD, POWER (AEP, UK, RU, HK, SP)	
⚠54	1-696-847-22	CORD, POWER (AUS)	
⚠54	1-769-079-32	CORD, POWER (KR)	
⚠54	1-783-531-72	CORD, POWER (US)	
⚠54	1-827-597-41	CORD, POWER (TW)	
⚠F901	1-532-465-33	FUSE (T3.15AL/250V) (EXCEPT US, TW)	
⚠F901	1-533-420-12	FUSE, GLASS CYLINDRICAL (DIA.5) (5A/125V) (US)	
⚠F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V) (TW)	

****

ACCESSORIES
****

Ref. No.	Part No.	Description	Remark
⚠	1-569-008-12	ADAPTOR, CONVERSION 2P (SP)	
⚠	1-770-019-51	ADAPTOR, CONVERSION PLUG (UK, HK)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MEMO

TA-SB500WR

SONY®

SERVICE MANUAL

Ver. 1.1 2007.02

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Addition of New type (for WAHT-SD1)

In this set, specification have been changed from the model used for WAHT-SD1.
Only information on a new type has been described in this supplement-1.
Refer to original service manual for former type.

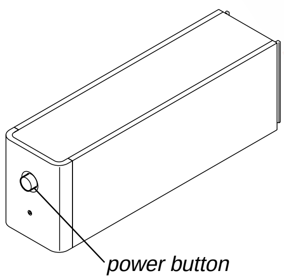
DESTINATION DIFFERENCE TABLE

	Destination	System model
Former type	US, AEP, UK, RU, EA, HK, KR, SP, TW, AUS	DAV-LF10, DAV-SB500W
New type	US, CND, RU, E3, E12, E32, KR, MX, SP, AUS	WAHT-SD1

- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E3 : 240V AC Area in E model
  E12 : 220V – 240V AC Area in E model
  E32 : 110V – 240V AC Area in E model
  EA : Saudi Arabia model
  HK : Hong Kong model
  KR : Korean model
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

NEW/FORMER TYPE DISCRIMINATION

Please confirm POWER BUTTON to distinguish Former type and New type.



Former type	New type
 silver color painting	 chrome plating finish

9-879-016-81

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS
for the US model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 3 ohms loads, both channels driven, from 120 Hz - 20,000 Hz; rated 60 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milli watts to rated output.

Amplifier section

US models:

Surround mode (reference)	RMS output power SL/SR* : 100 W (per channel at 3 ohms, 1 kHz, 10 % THD)

Latin American models:

Stereo mode (rated)	75 W + 75 W (a 3 ohms, 1 kHz, 1 % THD)
Surround mode (reference)	RMS output power SL/SR* : 80 W (per channel at 3 ohms, 1 kHz, 10 % THD)

Other models:

Stereo mode (rated)	80 W + 80 W (at 3 ohms, 1 kHz, 1 % THD)
Surround mode (reference)	RMS output power SL/SR* : 100 W (per channel at 3 ohms, 1 kHz, 10 % THD)

* *Depending on the sound field setting and the source, there may be no sound output.*

Power requirements:

North American models:	120 V AC, 60 Hz
Mexican models:	120 V AC, 60 Hz
Latin American models:	110 – 240 V AC, 50/60 Hz
Taiwan models:	120 V AC, 50/60 Hz
Other models:	220 – 240 V AC, 50/60 Hz
Power consumption	On: 40 W
Dimensions (approx.)	65 × 89 × 253 mm (2 5/8 × 3 5/8 × 10 inches) (w/h/d) 65 × 89 × 345 mm (2 5/8 × 3 5/8 × 13 5/8 inches) (w/h/d) incl. speaker cord cover
Mass (approx.)	1.3 kg (2 lb 14 oz) 1.4 kg (3 lb 2 oz) incl. speaker cord cover

Design and specifications are subject to change without notice.

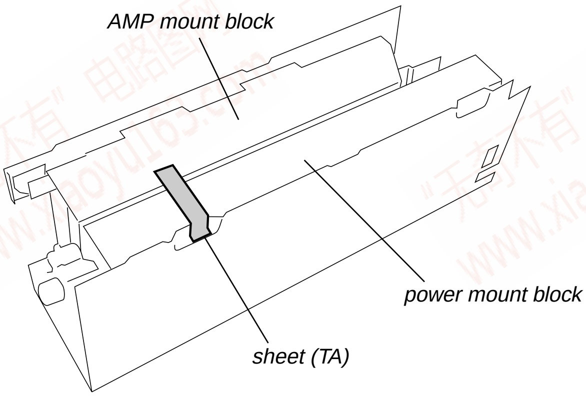
TABLE OF CONTENTS

1. SERVICING NOTE

NOTE OF GROUND PROCESSING

The sheet (TA) is stuck on shield case of AMP mount block and POWER mount block for ground processing.
When a sheet (TA) is removed, please exchange for a surely new sheet (TA).

Relevance models: E3 (240V AC Area in E model), Korean, Australian, Russian models

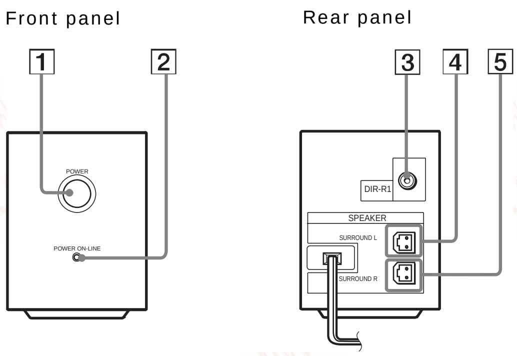


2. GENERAL

This section is extracted from instruction manual.

LOCATION OF CONTROLS

Surround amplifier



1 **POWER (ON/OFF)**
2 **POWER/ON LINE indicator**
3 **DIR-R1 jack**
4 **SURROUND L SPEAKER jack**
5 **SURROUND R SPEAKER jack**

3. DISASSEMBLY

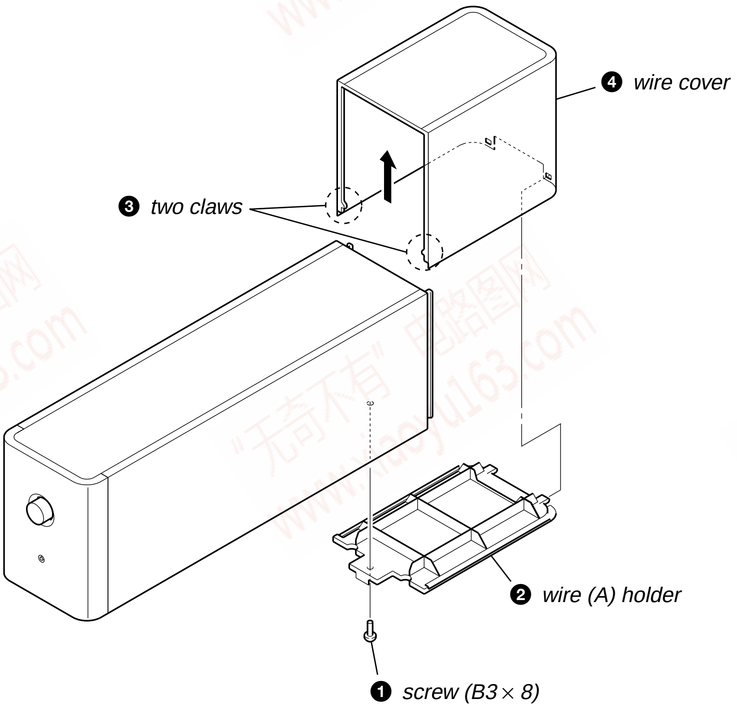
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

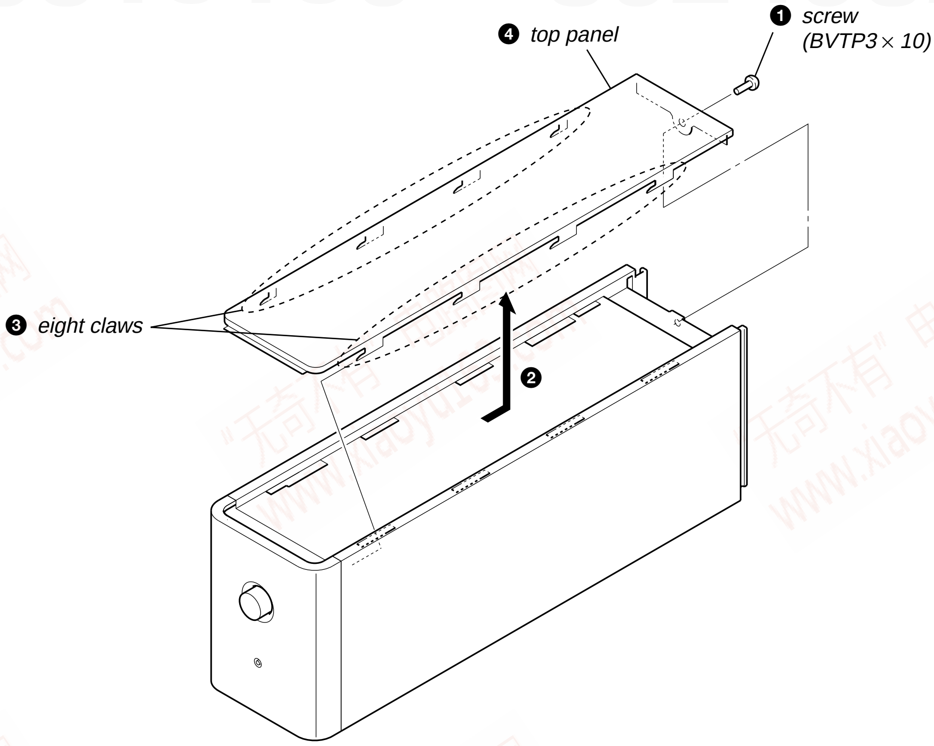
SET
↓
3-2. WIRE COVER (Page 4)
↓
3-3. TOP PANEL (Page 5)
↓
3-4. SIDE PANEL, FRONT PANEL BLOCK (Page 5)
↓
3-5. DIAT POWER BOARD (Page 6)
↓
3-6. DIAT AMP BOARD (Page 6)

Note: Follow the disassembly procedure in the numerical order given.

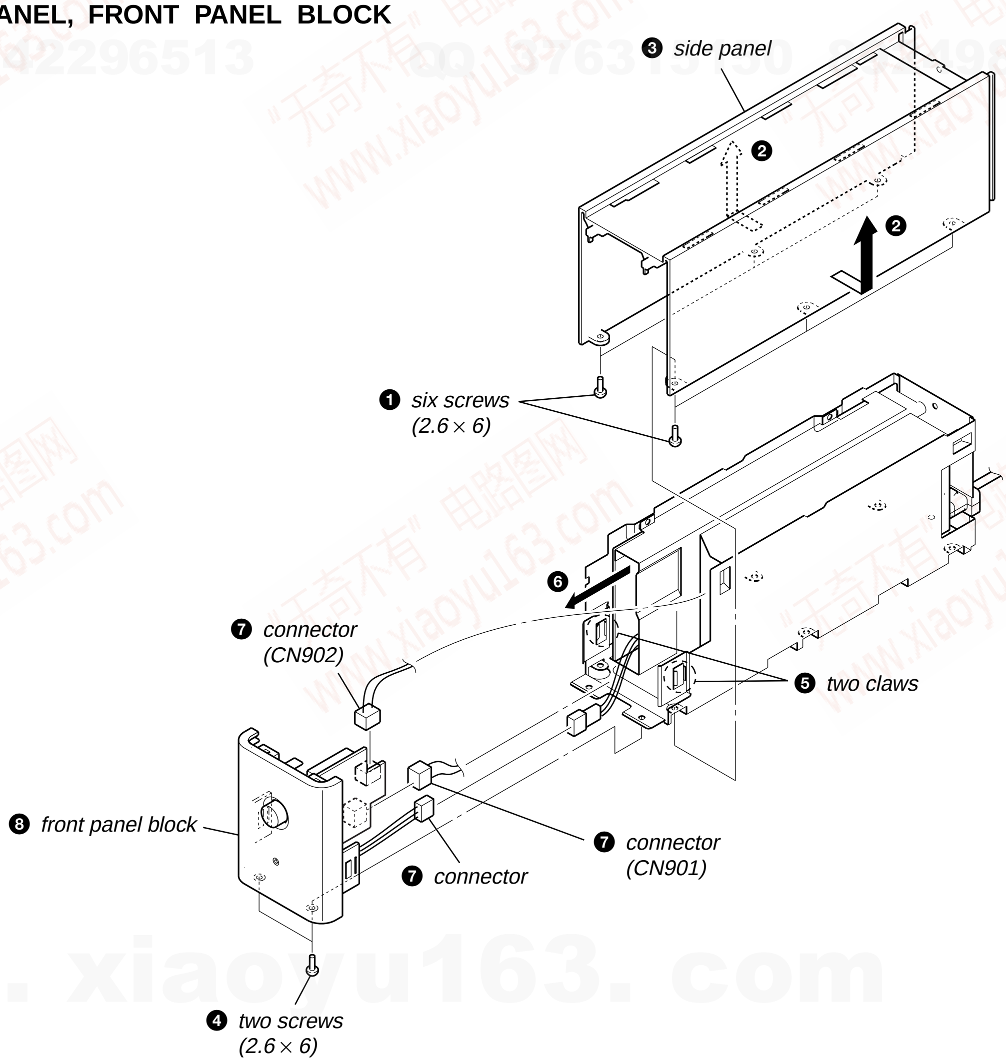
3-2. WIRE COVER



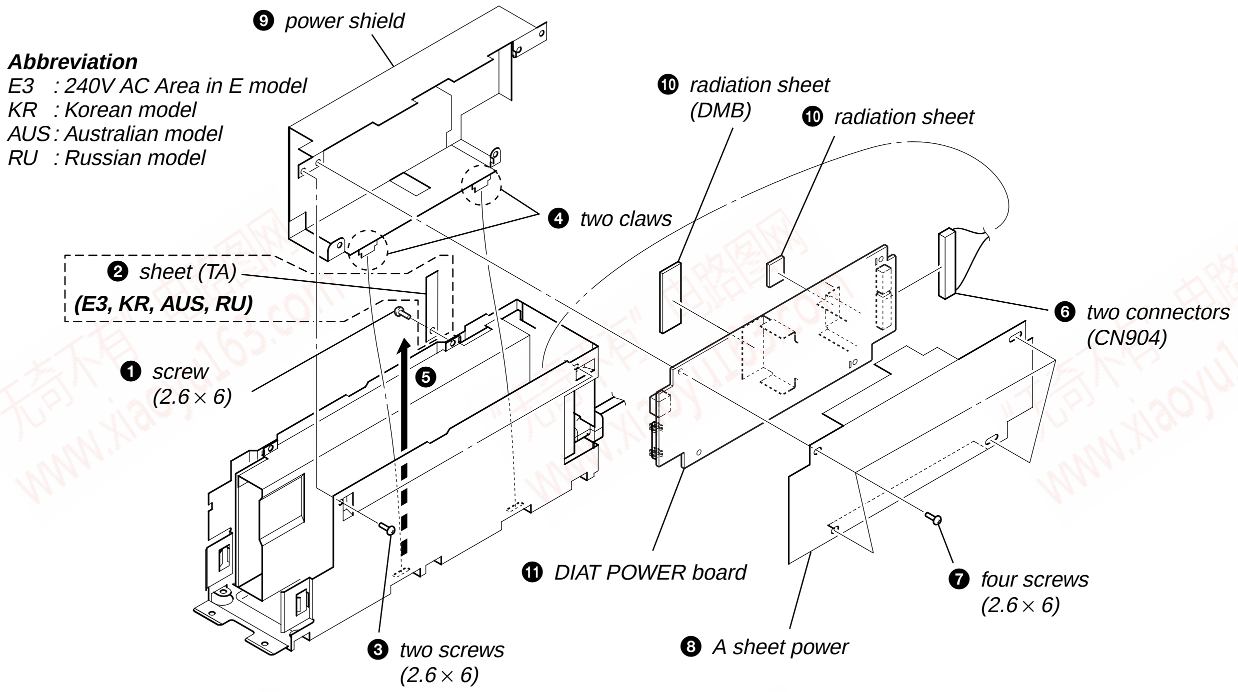
3-3. TOP PANEL



3-4. SIDE PANEL, FRONT PANEL BLOCK

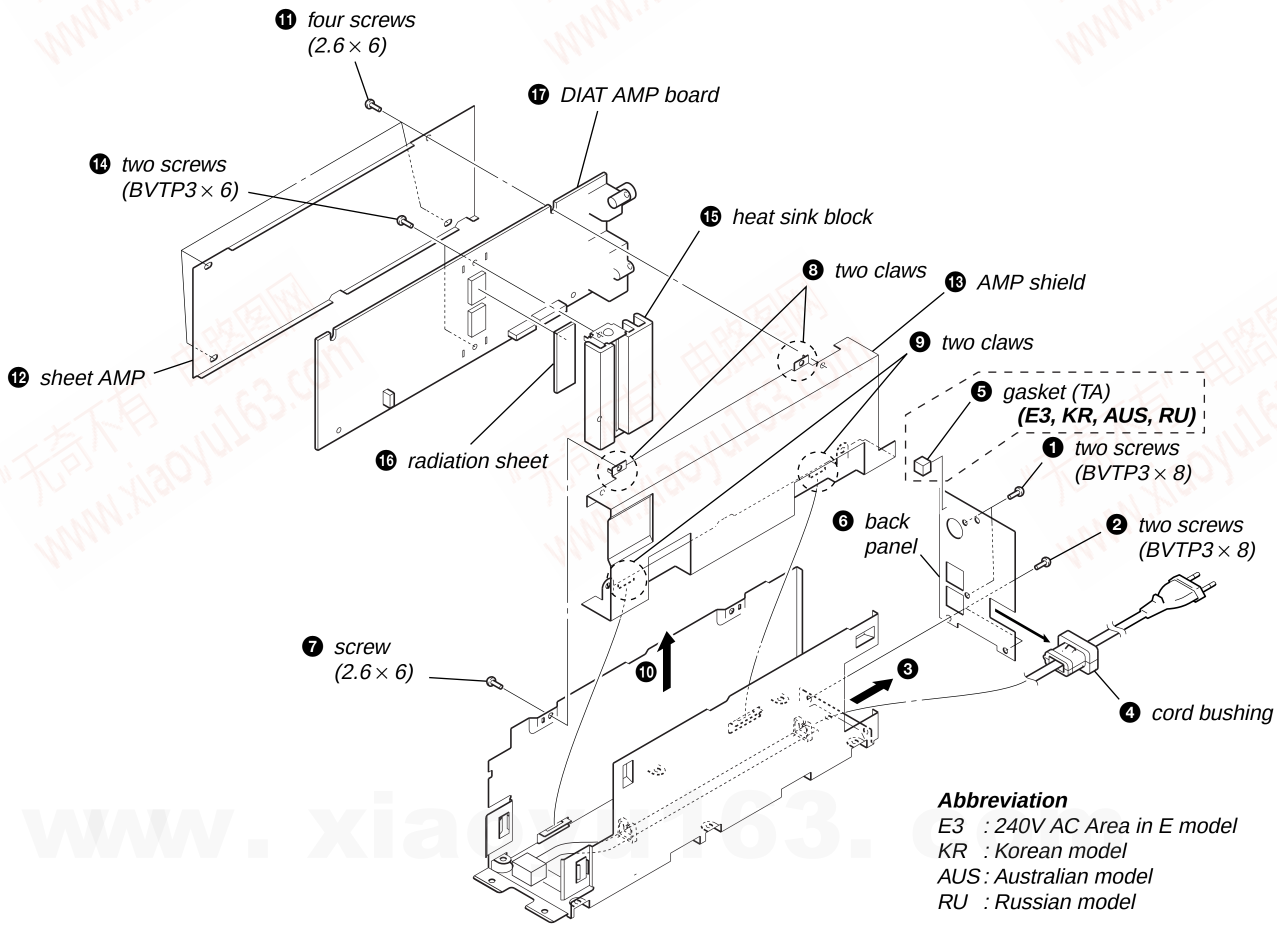


3-5. DIAT POWER BOARD



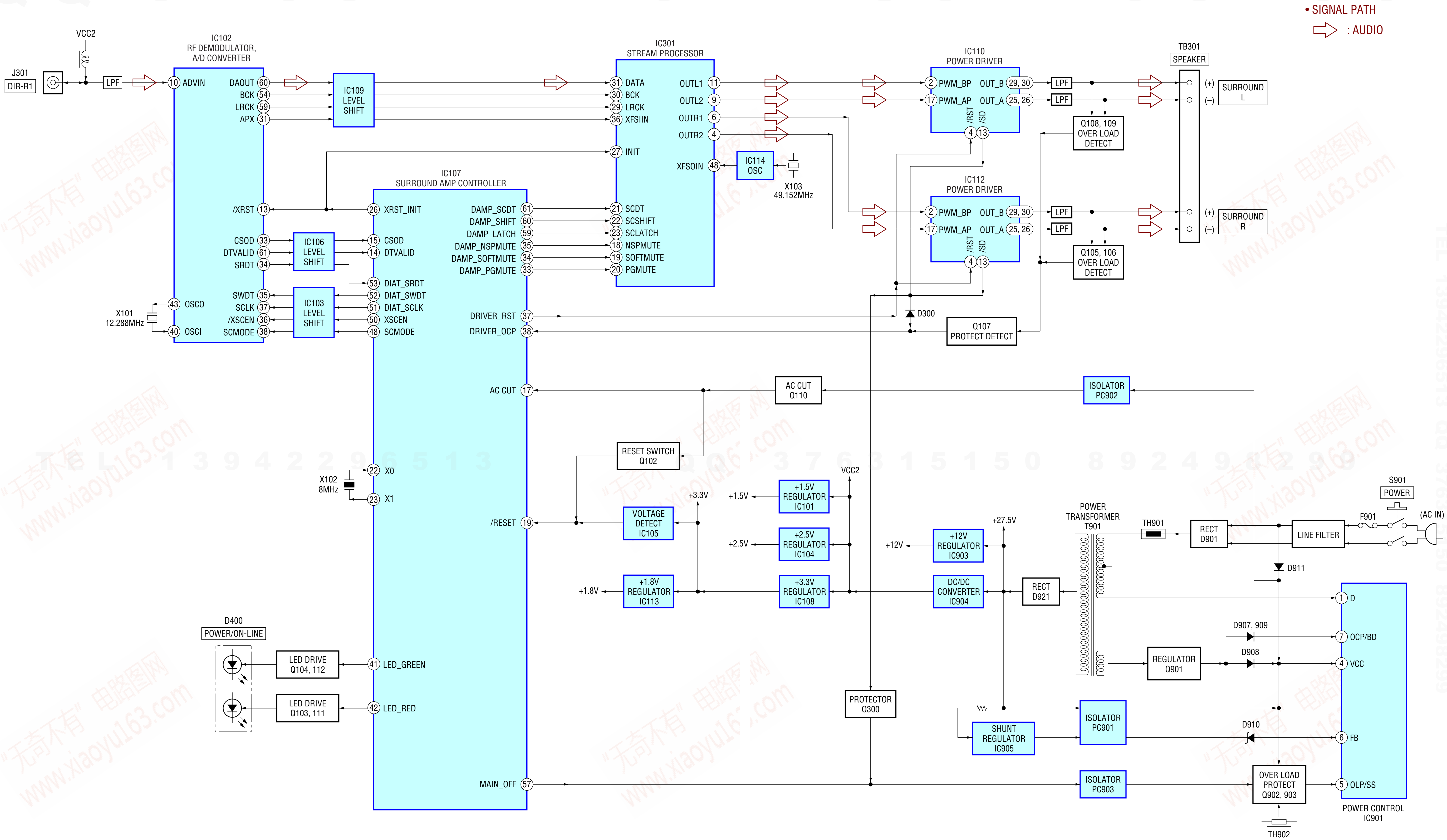
Note: When sheet (TA) is removed, exchange with surely new sheet (TA).

3-6. DIAT AMP BOARD



4. DIAGRAMS

4-1. BLOCK DIAGRAM



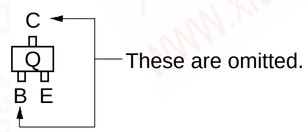
• **Note for Printed Wiring Boards and Schematic Diagrams**

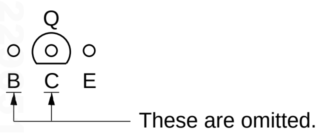
Note on Printed Wiring Boards:
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- DIAT AMP board is multi-layer printed board. However, the patterns of intermediate layers have not been included in diagrams.
- Indication of transistor.





Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.
- ▭ : panel designation.

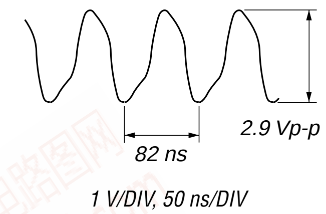
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  Note: When mesurering voltages and waveforms, connect with HCD-SB500W (HCD-SB500W states: DVD play).
  no mark : DVD PLAY
  ∗ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : AUDIO
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E3 : 240V AC Area in E model
  E12 : 220V – 240V AC Area in E model
  E32 : 110V – 240V AC Area in E model
  KR : Korean model
  MX : Mexican model
  RU : Russian model
  SP : Singapore model

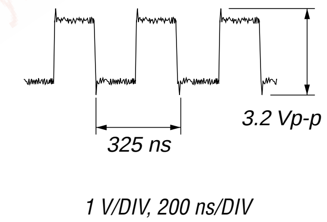
• **Waveforms**

– DIAT AMP Board –

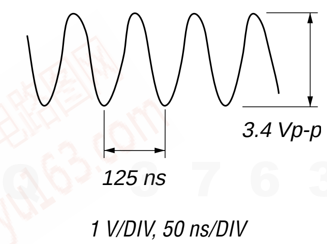
① IC102 ㊸ (OSCO)



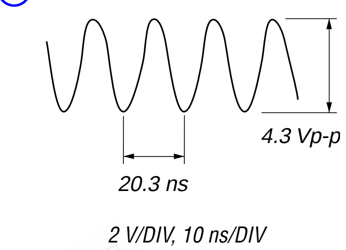
② IC102 ㊿④ (BCK)



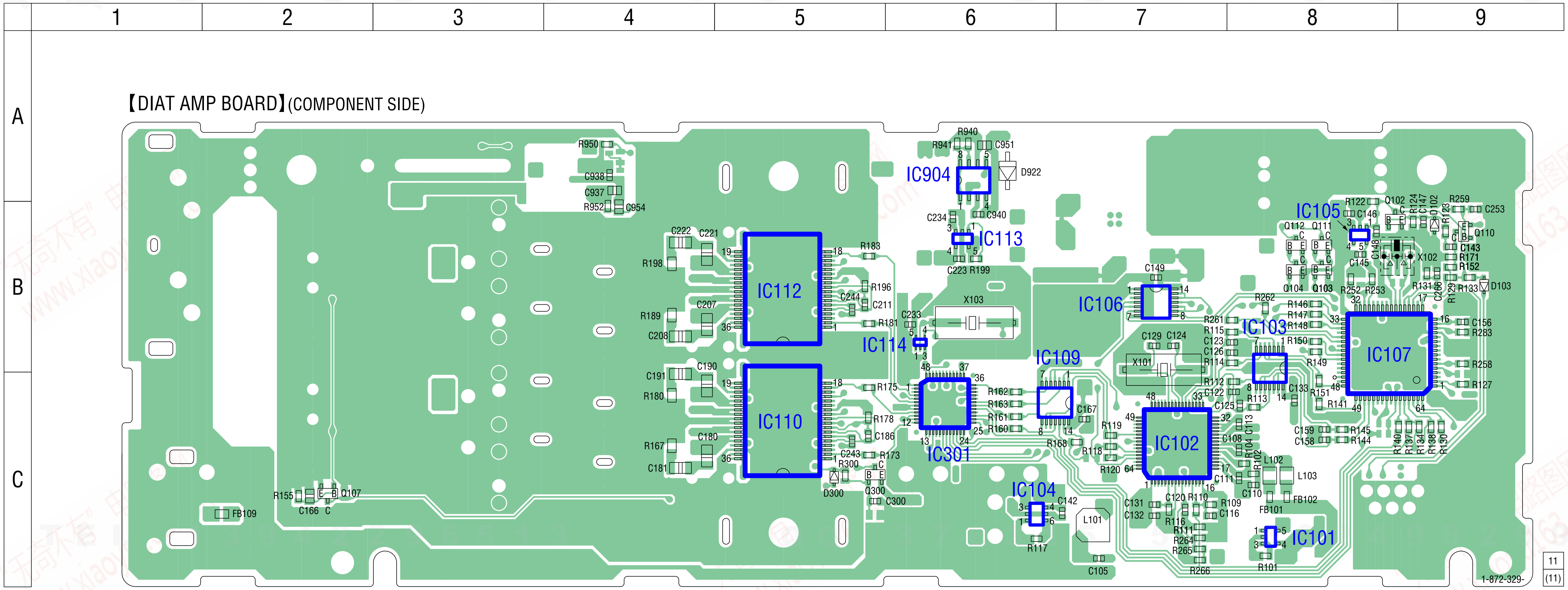
③ IC107 ㉓ (X1)



④ IC114 ④



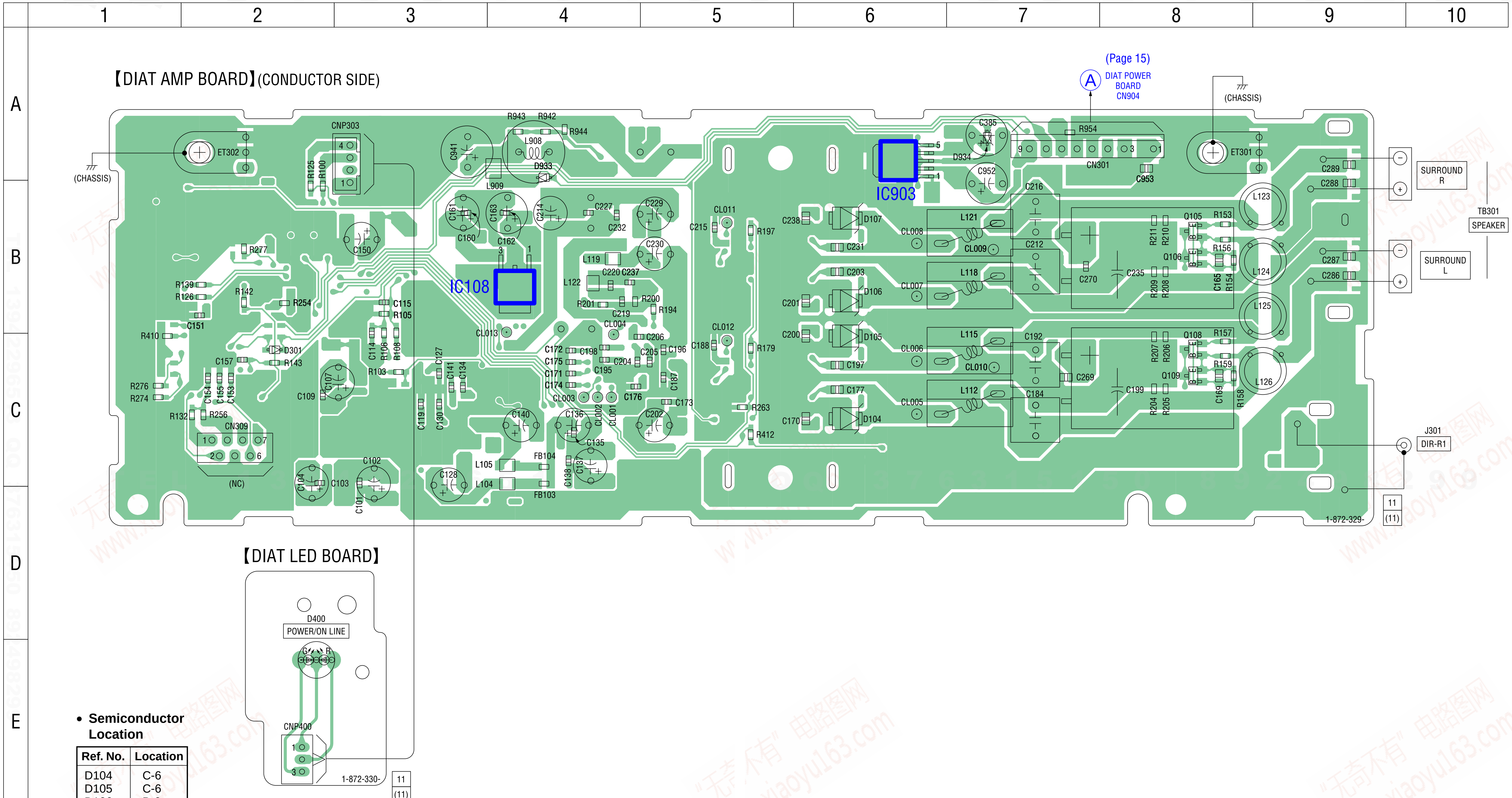
4-2. PRINTED WIRING BOARD – DIAT AMP Section (1/2) – : Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location
D102	B-9
D103	B-9
D300	C-5
D922	A-6
IC101	C-8
IC102	C-7
IC103	B-8
IC104	C-6
IC105	B-8
IC106	B-7
IC107	B-8
IC109	C-6
IC110	C-5
IC112	B-5
IC113	B-6
IC114	B-6
IC301	C-6
IC904	A-6
Q102	A-8
Q103	B-8
Q104	B-8
Q107	C-2
Q110	B-9
Q111	B-8
Q112	B-8
Q300	C-5

4-3. PRINTED WIRING BOARDS – DIAT AMP Section (2/2) – : Uses unleaded solder.

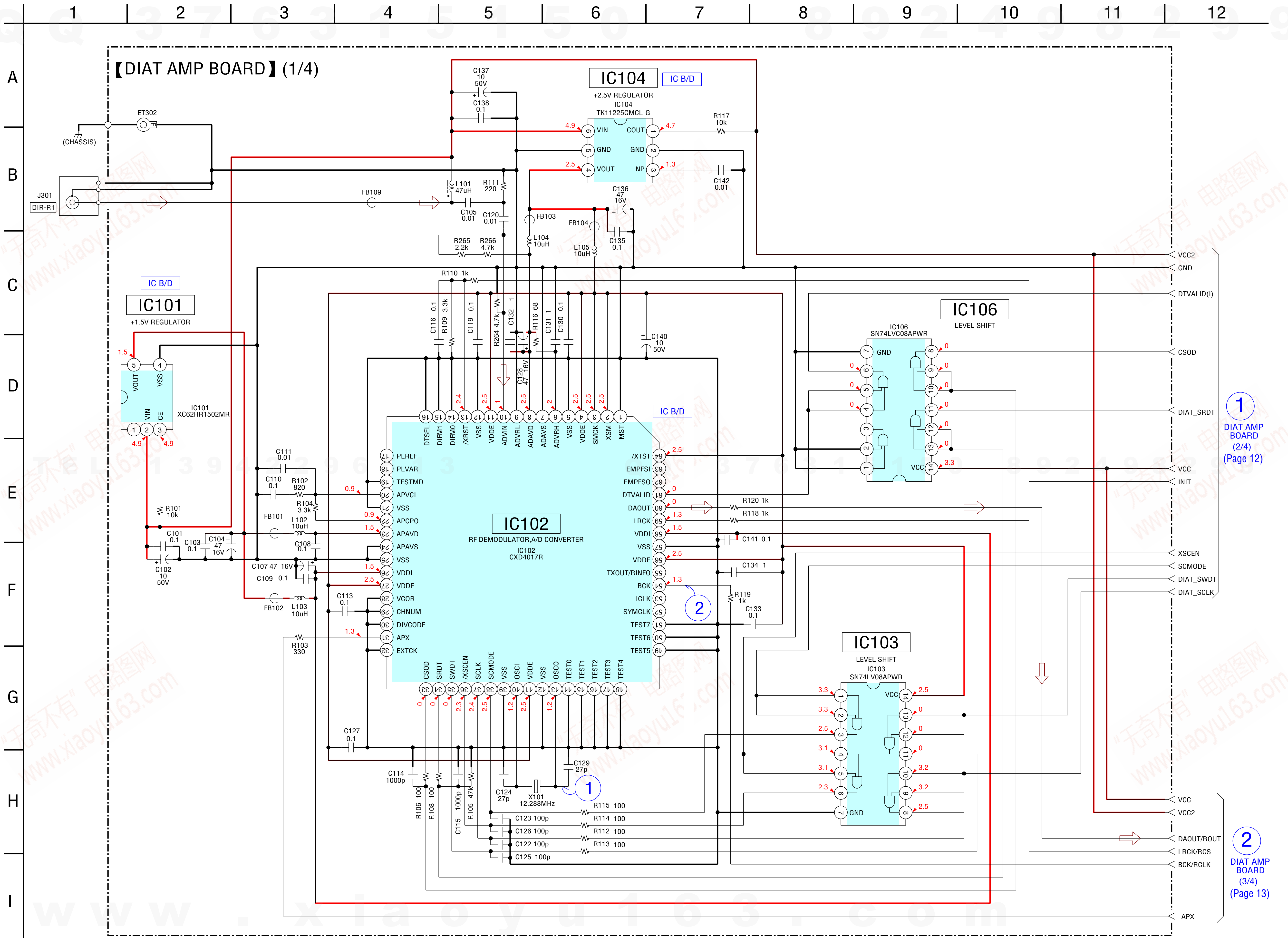


• **Semiconductor Location**

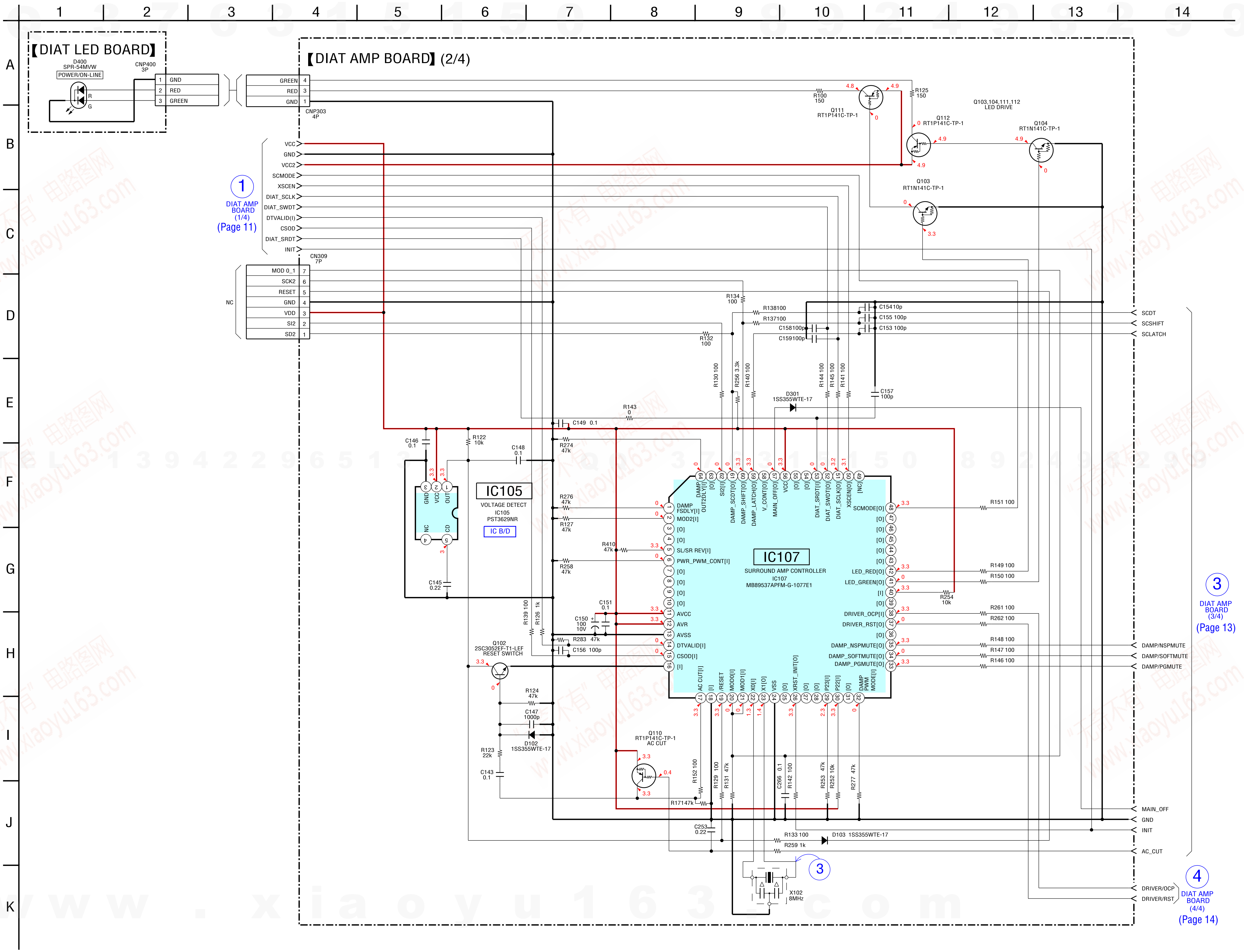
Ref. No.	Location
D104	C-6
D105	C-6
D106	B-6
D107	B-6
D301	C-2
D400	E-2
D933	A-4
D934	A-7
IC108	B-4
IC903	A-6
Q105	B-8
Q106	B-8
Q108	C-8
Q109	C-8

4-4. SCHEMATIC DIAGRAM – DIAT AMP Section (1/4) –

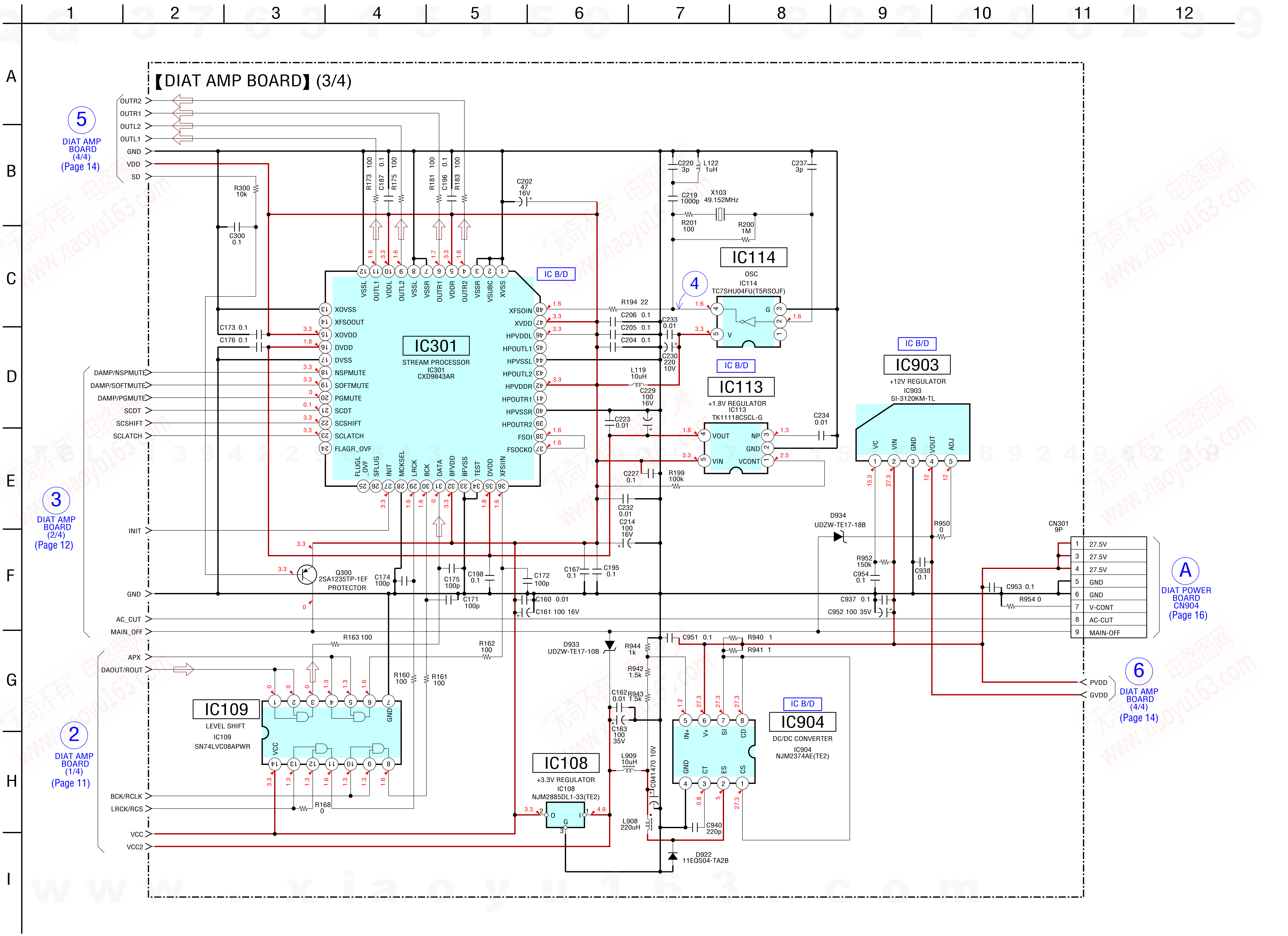
• See page 8 for Waveforms. • See page 17 for IC Block Diagrams.



4-5. SCHEMATIC DIAGRAM – DIAT AMP Section (2/4) – • See page 8 for Waveforms. • See page 17 for IC Block Diagrams. • See page 21 for IC Pin Function Description.

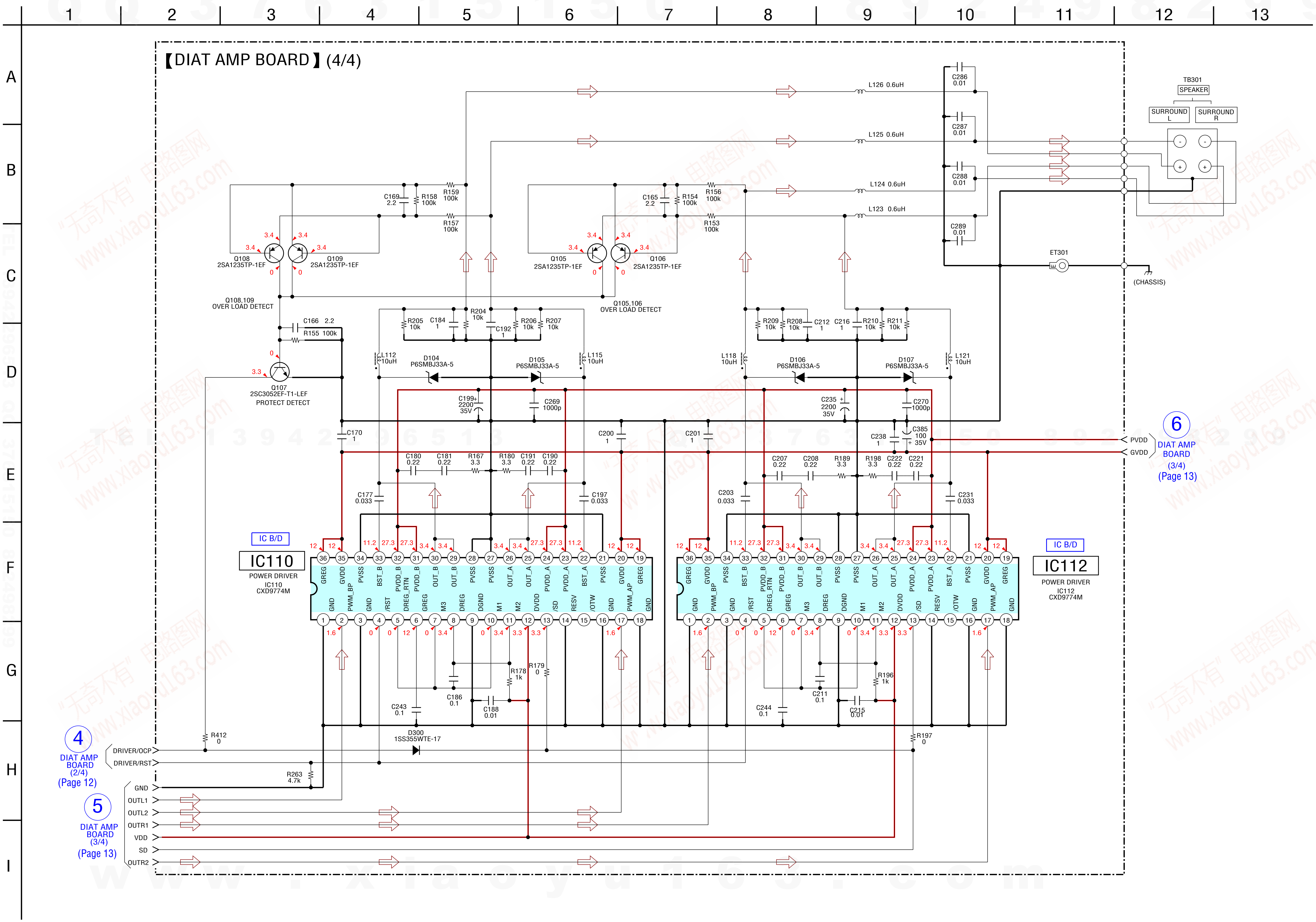


4-6. SCHEMATIC DIAGRAM – DIAT AMP Section (3/4) – • See page 8 for Waveforms. • See page 17 for IC Block Diagrams.

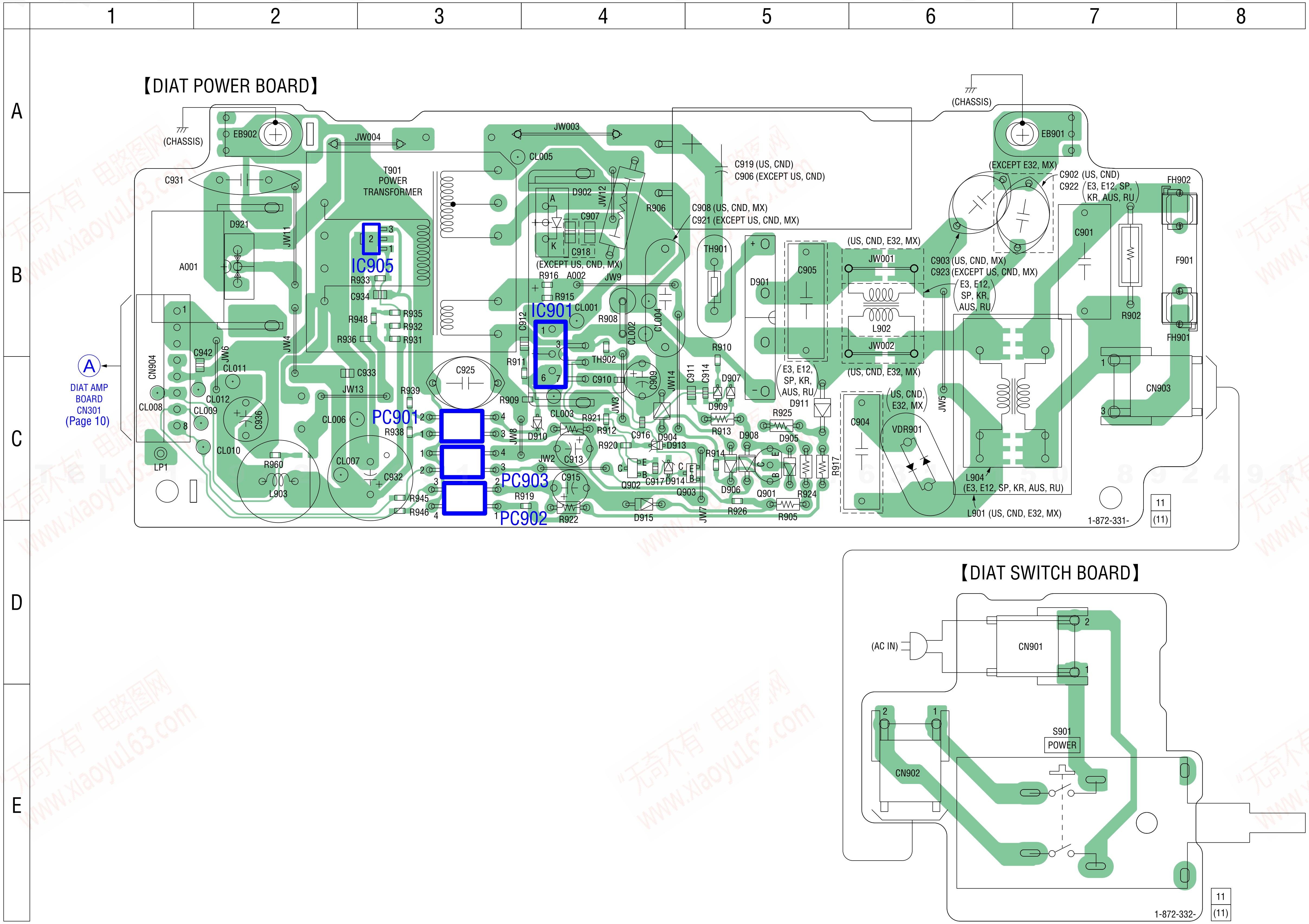


4-7. SCHEMATIC DIAGRAM – DIAT AMP Section (4/4) –

• See page 17 for IC Block Diagrams.



4-8. PRINTED WIRING BOARDS – POWER SUPPLY Section – : Uses unleaded solder.

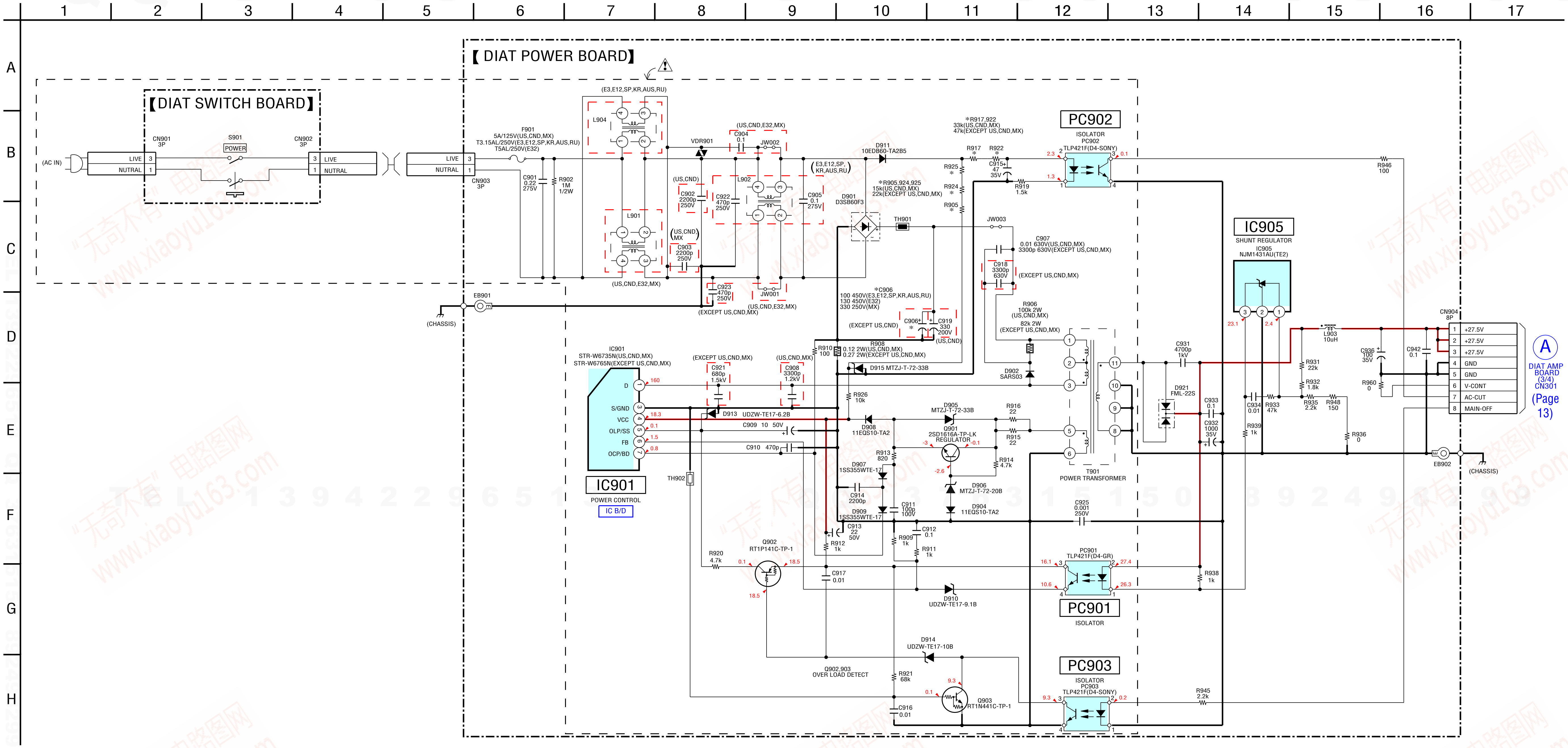


- Semiconductor Location

Ref. No.	Location
D901	B-5
D902	B-4
D904	C-4
D905	C-5
D906	C-5
D907	C-5
D908	C-5
D909	C-5
D910	C-4
D911	C-5
D913	C-4
D914	C-4
D915	C-4
D921	B-2
IC901	B-4
IC905	B-3
PC901	C-3
PC902	C-3
PC903	C-3
Q901	C-5
Q902	C-4
Q903	C-5

4-9. SCHEMATIC DIAGRAM – POWER SUPPLY Section –

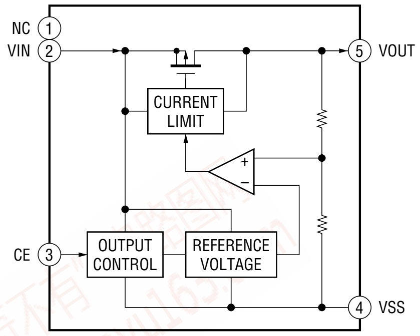
• See page 17 for IC Block Diagrams.



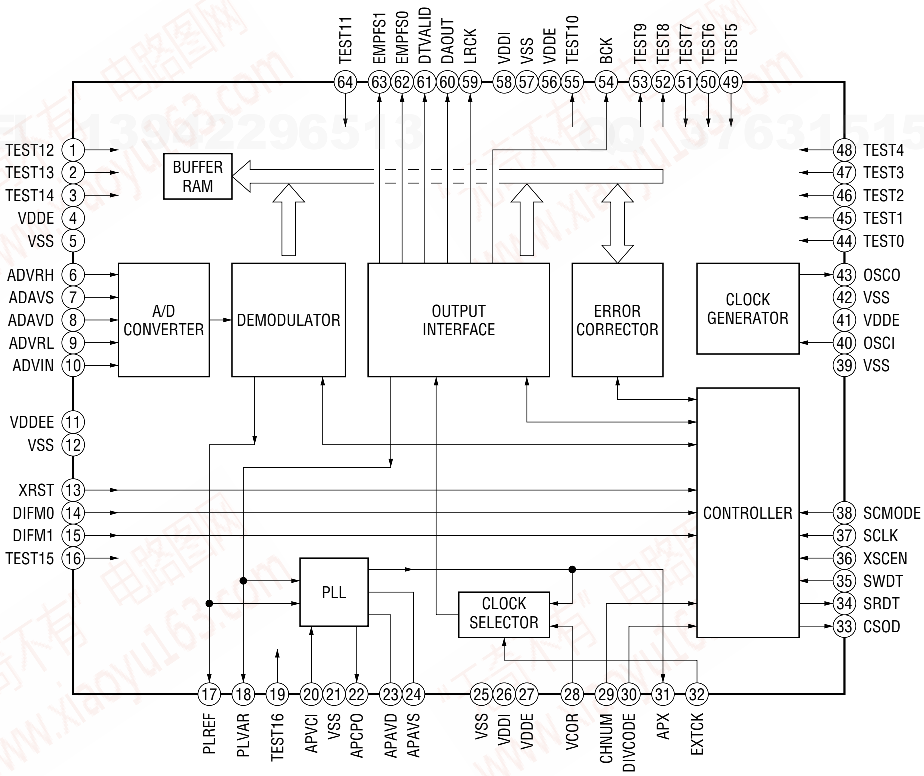
- **IC Block Diagrams**

– DIAT AMP Board –

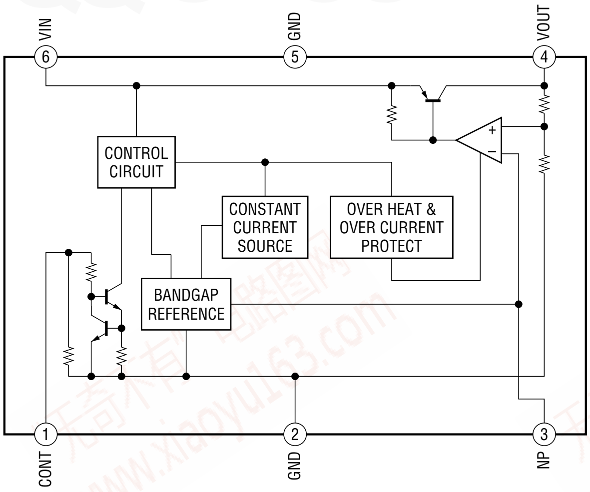
IC101 XC62HR1502MR



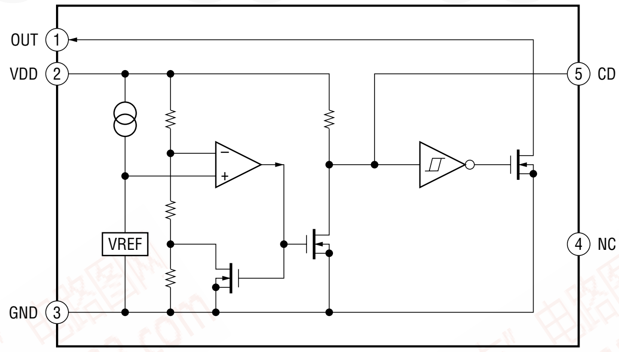
IC102 CXD4017R



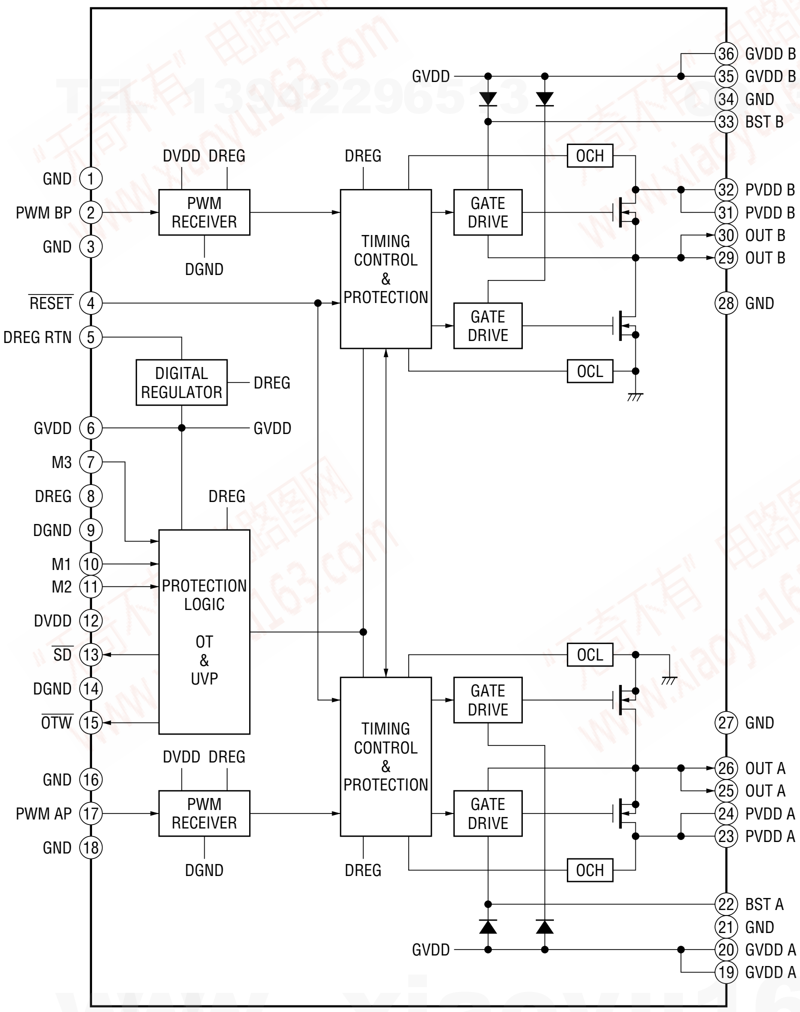
IC104 TK11225CMCL-G



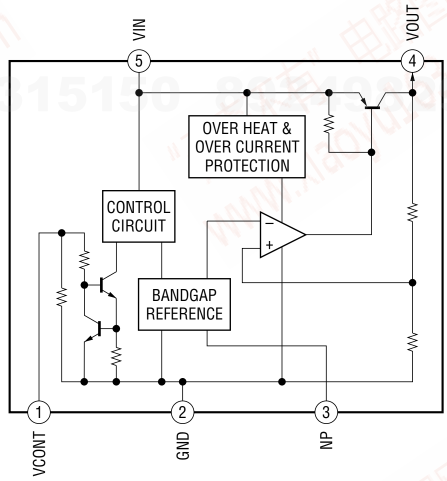
IC105 PST3629NR



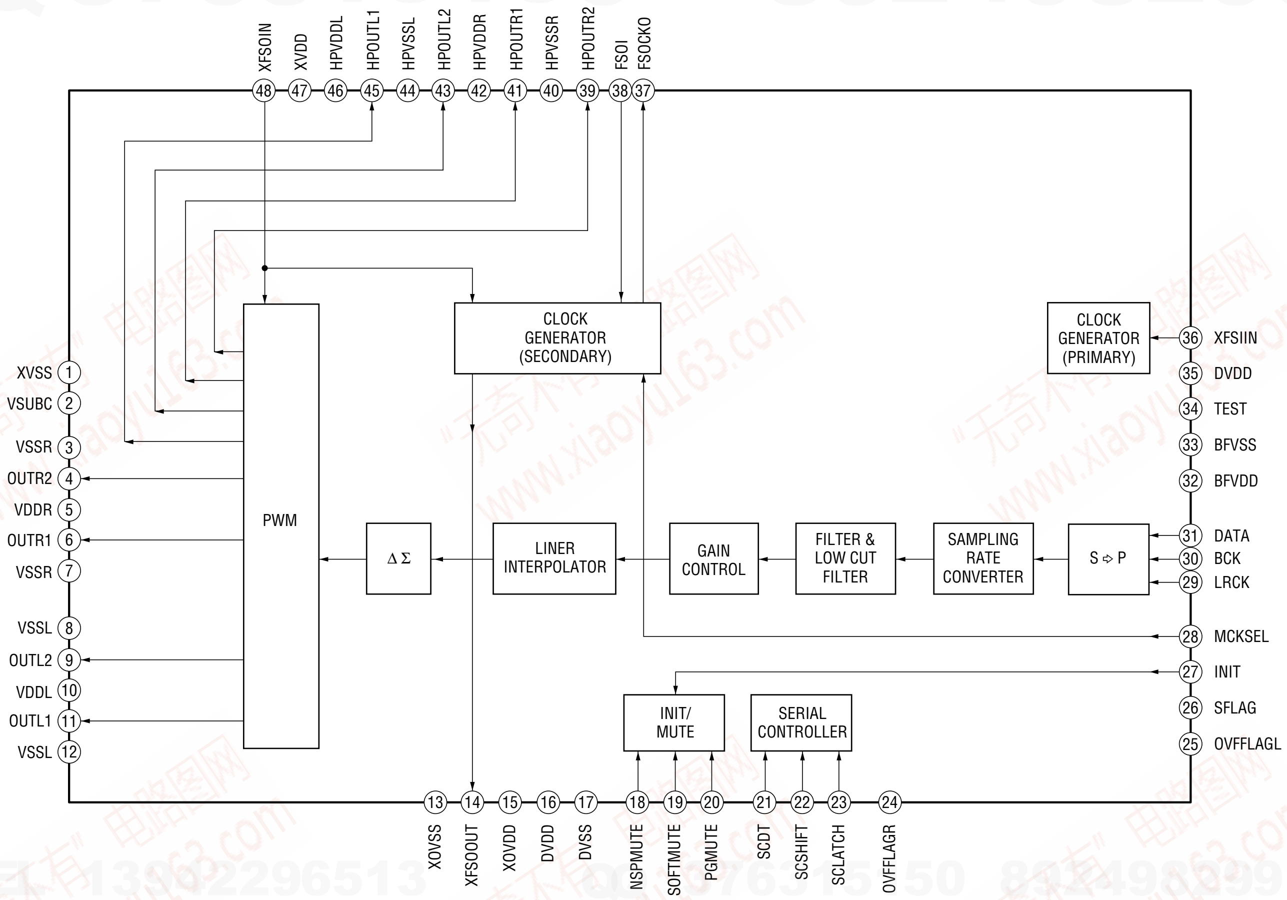
IC110, 112 CXD9774M



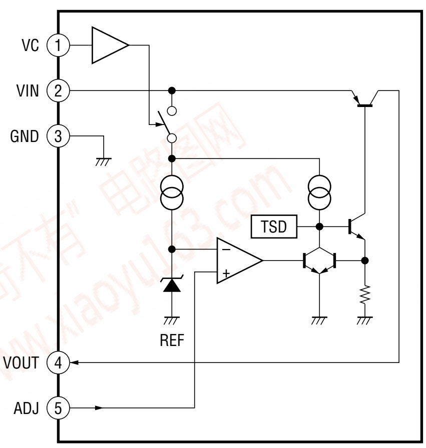
IC113 TK11118CSCL-G



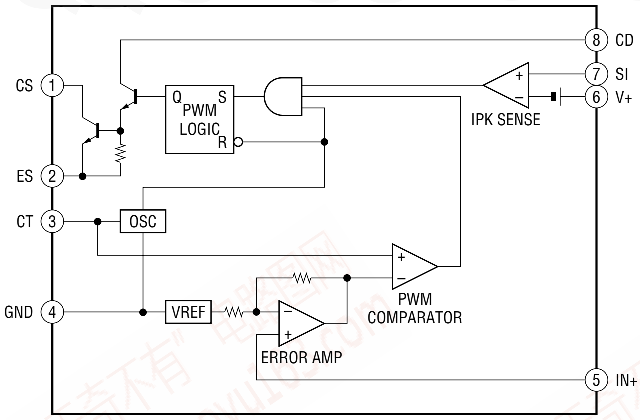
IC301 CXD9843AR



IC903 SI-3120KM-TL

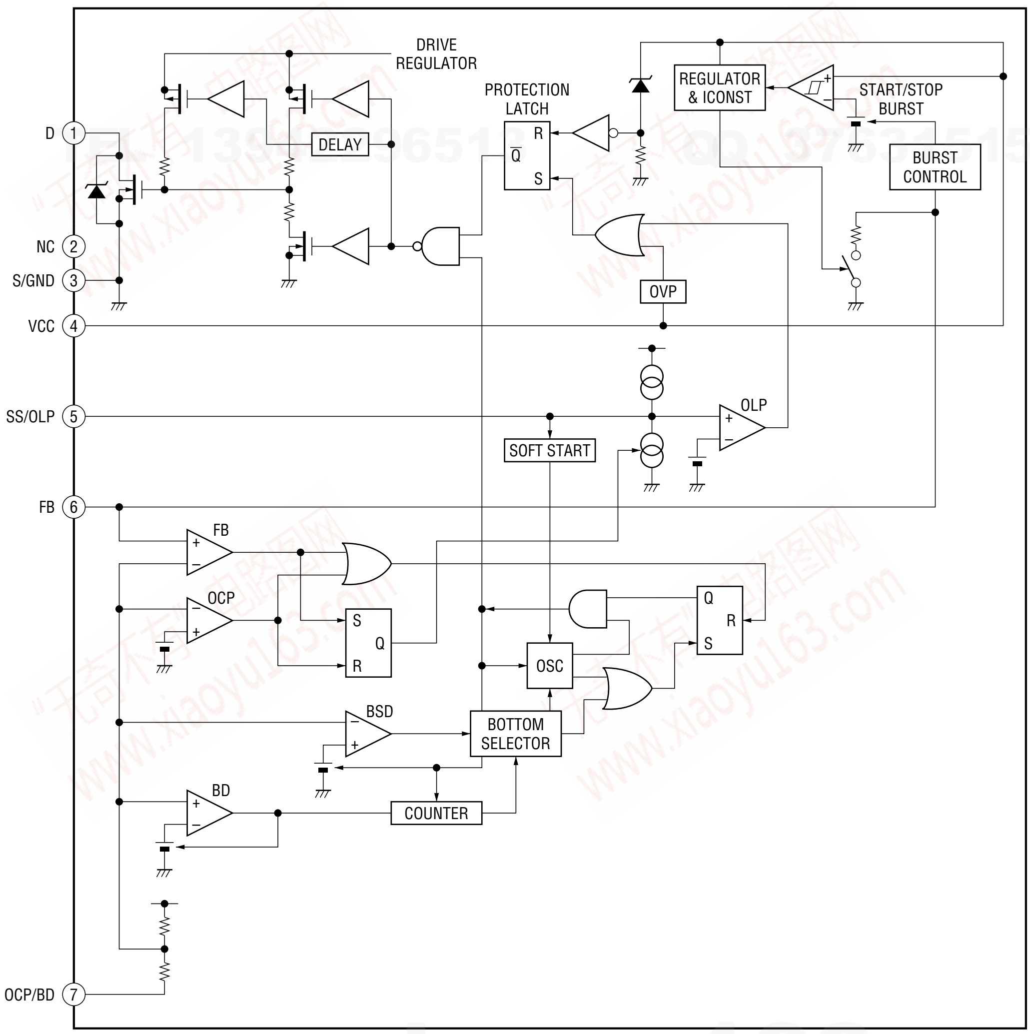


IC904 NJM2374AE (TE2)



– DIAT POWER Board –

IC901 STR-W6735N (US, CND, MX)
IC901 STR-W6765N (EXCEPT US, CND, MX)



- **IC Pin Function Description**

DIAT AMP BOARD IC107 MB89537APFM-G-1077E1 (SURROUND AMP CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DAMP FSDLY	I	Clock delay switch input terminal Fixed at "L" in this set
2	MOD2	I	Setting terminal for the CPU operation mode Fixed at "L" in this set
3, 4	-	O	Not used
5	SL/SR REV	I	Setting terminal for the SL/SR reverse function Fixed at "H" in this set
6	PWR_PWM_CONT	I	Setting terminal for the power control (fix/variable) Fixed at "L" in this set
7 to 10	-	O	Not used
11	AVCC	-	Power supply terminal (+3.3V) (for A/D converter)
12	AVR	I	Reference voltage (+3.3V) input terminal (for A/D converter)
13	AVSS	-	Ground terminal (for A/D converter)
14	DTVALID	I	Data valid flag input from the RF demodulator "L": invalid, "H": valid
15	CSOD	I	Captor start delay signal input from the RF demodulator "H" active
16	-	I	Not used
17	AC CUT	I	AC cut detection signal input terminal "L": AC cut
18	-	I	Not used
19	/RESET	I	Reset signal input terminal "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
20, 21	MOD0, MOD1	I	CPU operation mode setting signal input terminal
22	X0	I	Main system clock input terminal (8 MHz)
23	X1	O	Main system clock output terminal (8 MHz)
24	VSS	-	Ground terminal
25	-	O	Not used
26	XRST_INIT	O	Reset signal output to the RF demodulator and stream processor "L": reset
27, 28	-	O	Not used
29	P23	I	Setting terminal for the CPU operation mode Fixed at "L" in this set
30	P22	I	Setting terminal for the CPU operation mode Fixed at "H" in this set
31	-	O	Not used
32	DAMP PWM MODE	I	Setting terminal for the PWM mode output switch Fixed at "L" in this set
33	DAMP_PGMUTE	O	PG muting on/off control signal output to the stream processor "L": muting on
34	DAMP_SOFTMUTE	O	Soft muting on/off control signal output to the stream processor "L": muting on
35	DAMP_NSPMUTE	O	NSP muting on/off control signal output to the stream processor "L": muting on
36	-	O	Not used
37	DRIVER_RST	O	Reset signal output to the power driver "L": reset
38	DRIVER_OCP	I	Shut down state input from the power driver "L": shut down
39	-	I	Not used
40	-	I	Setting terminal for the CPU operation mode Fixed at "H" in this set
41	LED_GREEN	O	LED drive signal output of the ON LINE indicator "H": LED on
42	LED_RED	O	LED drive signal output of the POWER indicator "H": LED on
43 to 47	-	O	Not used
48	SCMODE	O	Control mode selection signal output to the RF demodulator "L": pin setting, "H": serial setting
49	-	-	Not used
50	XSCEN	O	Serial interface enable signal output to the RF demodulator
51	DIAT_SCLK	O	Serial interface data clock signal output to the RF demodulator
52	DIAT_SWDT	O	Serial interface data write signal output to the RF demodulator
53	DIAT_SRDT	I	Serial interface data read signal input from the RF demodulator

Pin No.	Pin Name	I/O	Description
54, 55	-	O	Not used
56	VCC	-	Power supply terminal (+3.3V)
57	MAIN_OFF	O	Power off control signal output to the power control "H": power off
58	V_CONT	O	Voltage control PWM signal output terminal Not used
59	DAMP_LATCH	O	Latch control signal output to the stream processor
60	DAMP_SHIFT	O	Shift clock signal output to the stream processor
61	DAMP_SCDT	O	Serial data output to the stream processor
62	SI2	I	Serial data input terminal
63	-	O	Not used
64	DAMP OUT2DLY	I	Clock delay switch input terminal Fixed at "L" in this set

5. EXPLODED VIEWS

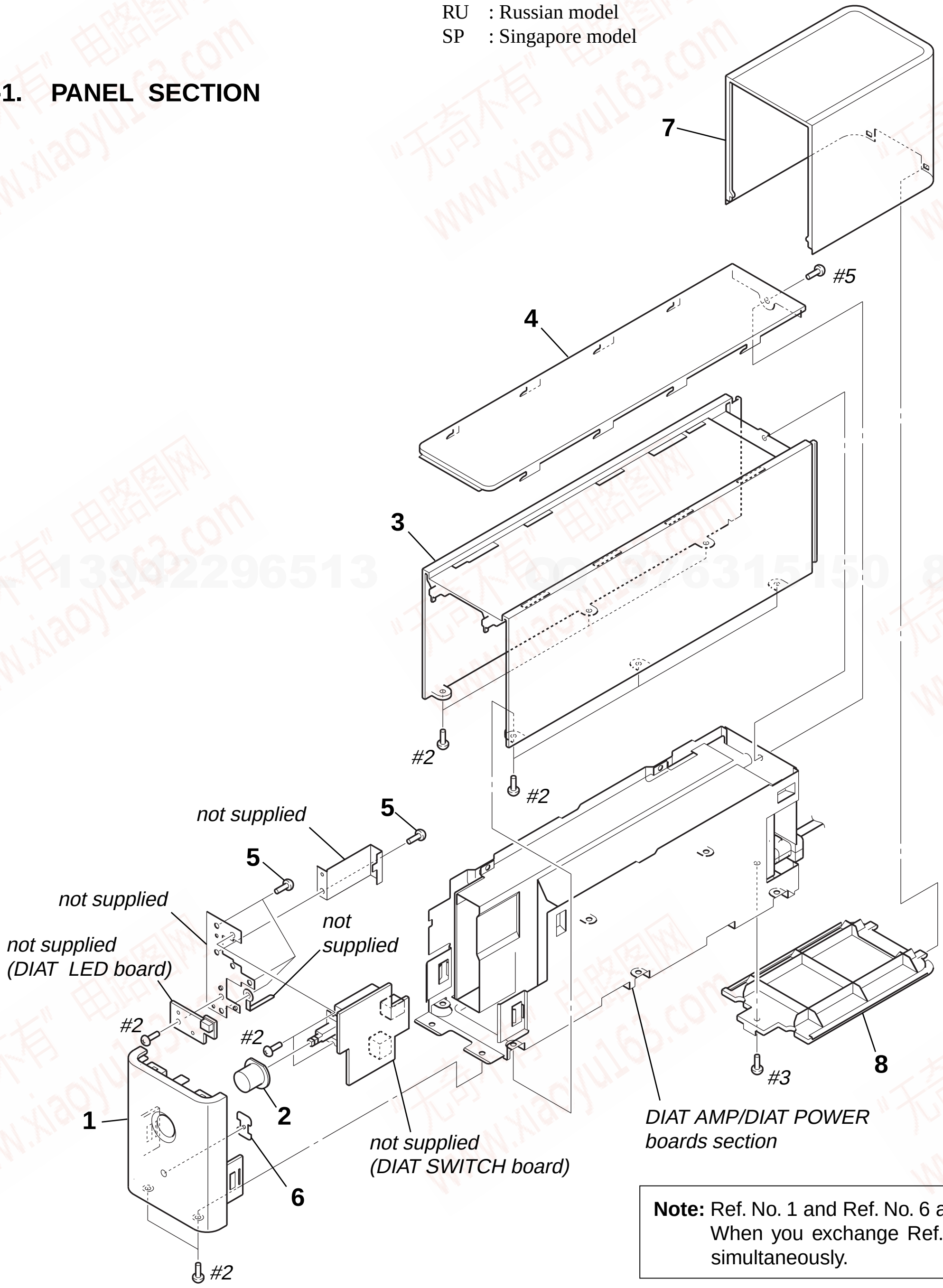
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E3 : 240V AC Area in E model
  E12 : 220V – 240V AC Area in E model
  E32 : 110V – 240V AC Area in E model
  KR : Korean model
  MX : Mexican model
  RU : Russian model
  SP : Singapore model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. PANEL SECTION

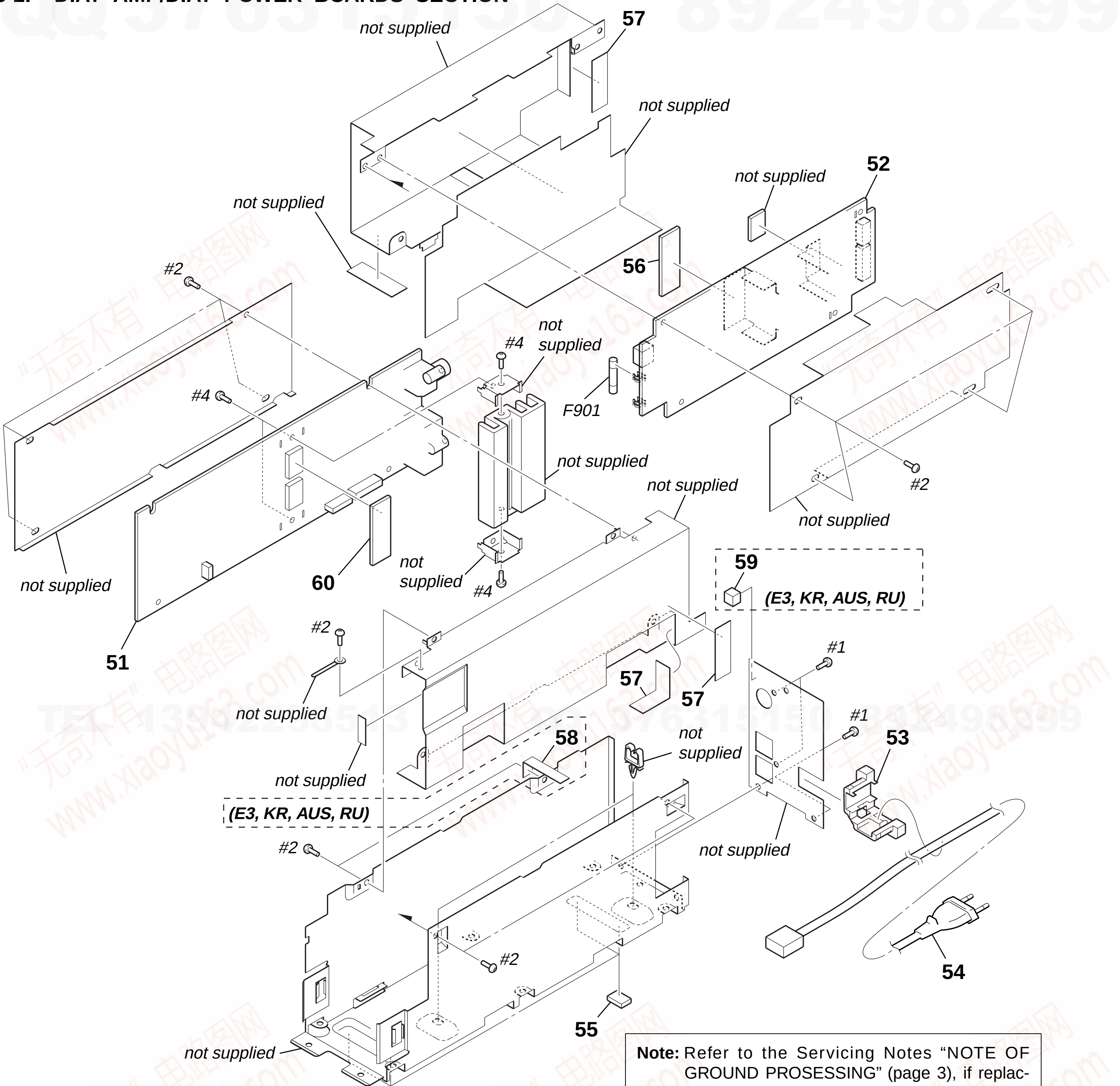


Note: Ref. No. 1 and Ref. No. 6 are parts glued together.
When you exchange Ref. No. 1 or Ref. No. 6, exchange simultaneously.

Ref. No.	Part No.	Description	Remark
1	2-894-636-01	CABINET, FRONT (US, CND)	
1	2-894-636-12	CABINET, FRONT (E3, E12, E32, MX, SP, KR, AUS, RU)	
2	2-891-290-01	BUTTON, POWER	
3	2-149-270-21	SIDE, PANEL (US, CND)	
3	2-149-270-31	SIDE, PANEL (E3, E12, E32, MX, SP, KR, AUS, RU)	
4	2-149-269-11	PANEL, TOP	

Ref. No.	Part No.	Description	Remark
5	3-087-053-01	+BVTP2.6 (3CR)	
6	2-149-422-02	INDICATOR, POWER	
7	2-149-273-21	COVER, WIRE	
8	2-149-272-11	HOLD, WIRE (A)	
#2	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
#3	7-682-548-09	SCREW +B 3X8	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

5-2. DIAT AMP/DIAT POWER BOARDS SECTION



Note: Refer to the Servicing Notes "NOTE OF GROUND PROSESSING" (page 3), if replacing the Ref. No. 58.

Ref. No.	Part No.	Description	Remark
51	A-1221-190-A	DIAT AMP BOARD, COMPLETE	
52	A-1221-077-A	DIAT POWER BOARD, COMPLETE (MX)	
52	A-1221-192-A	DIAT POWER BOARD, COMPLETE (US, CND)	
52	A-1221-201-A	DIAT POWER BOARD, COMPLETE (E3, E12, SP, KR, AUS, RU)	
52	A-1221-210-A	DIAT POWER BOARD, COMPLETE (E32)	
53	3-703-244-00	BUSHING (2104), CORD (US, CND, E3, E12, E32, SP, KR, AUS, RU)	
* 53	3-703-571-12	BUSHING (S) (4516), CORD (MX)	
⚠54	1-696-848-81	CORD, POWER (AUS)	
⚠54	1-769-079-23	CORD, POWER (KR)	
⚠54	1-777-071-23	CORD, POWER (E3, SP)	
⚠54	1-827-226-41	CORD, POWER (MX)	
⚠54	1-830-188-11	CORD, POWER (E12, E32, RU)	
⚠54	1-830-190-11	CORD, POWER (US, CND)	
55	2-895-066-01	FOOT	
56	4-254-954-01	SHEET (DMB), RADIATION	
57	3-228-738-01	SHEET (D)	
58	3-198-220-01	SHEET (TA) (E3, KR, AUS, RU)	
59	3-197-097-01	GASKET (TA) (E3, KR, AUS, RU)	
60	2-597-972-21	SHEET, RADIATION	
⚠F901	1-532-465-33	FUSE (T3.15AL/250V) (E3, E12, SP, KR, AUS, RU)	
⚠F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V) (US, CND, MX)	
⚠F901	1-576-232-51	FUSE (H.B.C) (T5AL/250V) (E32)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
#4	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

6. ELECTRICAL PARTS LIST

DIAT AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E3 : 240V AC Area in E model
  E12 : 220V – 240V AC Area in E model
  E32 : 110V – 240V AC Area in E model
  KR : Korean model
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA... : μA... uPA... : μPA...
  uPB... : μPB... uPC... : μPC...
  uPD... : μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
	A-1221-190-A	DIAT AMP BOARD, COMPLETE				
		**************************				
		< CAPACITOR >				
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C102	1-126-964-11	ELECT	10uF	20%	50V	
C103	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C104	1-126-947-11	ELECT	47uF	20%	35V	
C105	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	
C107	1-126-947-11	ELECT	47uF	20%	35V	
C108	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C109	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C111	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C114	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C115	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C119	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C120	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	
C122	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C123	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C124	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C125	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C126	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C127	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C128	1-126-947-11	ELECT	47uF	20%	35V	
C129	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C131	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	
C132	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C134	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	
C135	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C136	1-126-947-11	ELECT	47uF	20%	35V	
C137	1-126-964-11	ELECT	10uF	20%	50V	
C138	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C140	1-126-964-11	ELECT	10uF	20%	50V	
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C142	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V	
C143	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C145	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C147	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C148	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C150	1-104-658-91	ELECT	100uF	20%	10V	
C151	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C153	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C154	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C155	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C156	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C157	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C158	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C159	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C161	1-126-933-11	ELECT	100uF	20%	16V	
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C163	1-126-948-11	ELECT	100uF	20%	35V	
C165	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C166	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C167	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C169	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C170	1-164-346-11	CERAMIC CHIP	1uF		16V	
C171	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C172	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C173	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C174	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C175	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C176	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C177	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	
C180	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V	
C181	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V	
C184	1-137-198-81	FILM	1uF	5%	50V	
C186	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C187	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C188	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C190	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V	
C191	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V	
C192	1-137-198-81	FILM	1uF	5%	50V	
C195	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C196	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C197	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	
C198	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C199	1-107-898-21	ELECT	2200uF	20%	35V	
C200	1-164-346-11	CERAMIC CHIP	1uF		16V	
C201	1-164-346-11	CERAMIC CHIP	1uF		16V	

DIAT AMP

Ref. No.	Part No.	Description				Remark
C202	1-126-947-11	ELECT	47uF	20%	35V	
C203	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	
C204	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C205	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C206	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C207	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V	
C208	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V	
C211	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C212	1-137-198-81	FILM	1uF	5%	50V	
C214	1-126-933-11	ELECT	100uF	20%	16V	
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C216	1-137-198-81	FILM	1uF	5%	50V	
C219	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C220	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V	
C221	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V	
C222	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V	
C223	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C227	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C229	1-126-933-11	ELECT	100uF	20%	16V	
C230	1-126-923-91	ELECT	220uF	20%	10V	
C231	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	
C232	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C233	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C234	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C235	1-107-898-21	ELECT	2200uF	20%	35V	
C237	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V	
C238	1-164-346-11	CERAMIC CHIP	1uF		16V	
C243	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C244	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C253	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	
C266	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C269	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C270	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C286	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	
C287	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	
C288	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	
C289	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	
C300	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	
C385	1-126-948-11	ELECT	100uF	20%	35V	
C937	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C938	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C940	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	
C941	1-135-372-31	ELECT	470uF	20%	10V	
C951	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C952	1-126-948-11	ELECT	100uF	20%	35V	
C953	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C954	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
		< CONNECTOR >				
CN309	1-568-826-11	CONNECTOR SOCKET 7P				
		< DIODE >				
D102	6-501-193-01	DIODE 1SS355WTE-17				
D103	6-501-193-01	DIODE 1SS355WTE-17				
D104	6-500-885-01	DIODE P6SMBJ33A-5				
D105	6-500-885-01	DIODE P6SMBJ33A-5				
D106	6-500-885-01	DIODE P6SMBJ33A-5				

Ref. No.	Part No.	Description		Remark
D107	6-500-885-01	DIODE P6SMBJ33A-5		
D300	6-501-193-01	DIODE 1SS355WTE-17		
D301	6-501-193-01	DIODE 1SS355WTE-17		
D922	8-719-210-21	DIODE 11EQS04		
D933	6-501-174-01	DIODE UDZW-TE17-10B		
D934	6-501-180-01	DIODE UDZW-TE17-18B		
		< FERRITE BEAD >		
FB101	1-500-283-11	INDUCTOR, FERRITE BEAD		
FB102	1-500-283-11	INDUCTOR, FERRITE BEAD		
FB103	1-500-283-11	INDUCTOR, FERRITE BEAD		
FB104	1-500-283-11	INDUCTOR, FERRITE BEAD		
FB109	1-469-760-21	FERRITE, EMI (SMD) (2012)		
		< IC >		
IC101	6-701-851-01	IC XC62HR1502MR		
IC102	8-752-425-06	IC CXD4017R		
IC103	8-759-548-99	IC SN74LV08APWR		
IC104	6-704-261-01	IC TK11225CMCL-G		
IC105	6-701-680-01	IC PST3629NR		
IC106	8-759-679-55	IC SN74LVC08APWR		
IC107	6-807-371-01	IC MB89537APFM-G-1077E1		
IC108	6-707-487-01	IC NJM2885DL1-33 (TE2)		
IC109	8-759-679-55	IC SN74LVC08APWR		
IC110	6-704-802-01	IC CXD9774M		
IC112	6-704-802-01	IC CXD9774M		
IC113	6-702-300-01	IC TK11118CSCL-G		
IC114	6-706-492-01	IC TC7SHU04FU (T5RSOJF)		
IC301	6-707-939-01	IC CXD9843AR		
IC903	6-707-746-01	IC SI-3120KM-TL		
IC904	6-703-978-01	IC NJM2374AE (TE2)		
		< JACK >		
J301	1-818-633-11	JACK, PIN 1P (DIR-R1)		
		< COIL >		
L101	1-400-305-11	INDUCTOR	47uH	
L102	1-469-525-11	INDUCTOR	10uH	
L103	1-469-525-11	INDUCTOR	10uH	
L104	1-469-525-11	INDUCTOR	10uH	
L105	1-469-525-11	INDUCTOR	10uH	
L112	1-456-680-11	INDUCTOR	10uH	
L115	1-456-680-11	INDUCTOR	10uH	
L118	1-456-680-11	INDUCTOR	10uH	
L119	1-414-754-11	INDUCTOR	10uH	
L121	1-456-680-11	INDUCTOR	10uH	
L122	1-412-939-11	INDUCTOR	1uH	
L123	1-457-078-11	AIR-CORE COIL		
L124	1-457-077-11	AIR-CORE COIL		
L125	1-457-078-11	AIR-CORE COIL		
L126	1-457-077-11	AIR-CORE COIL		
L908	1-416-040-11	INDUCTOR	220uH	
L909	1-414-398-11	INDUCTOR	10uH	
		< TRANSISTOR >		
Q102	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	
Q103	8-729-027-43	TRANSISTOR	DTC114EKA-T146	

Ref. No.	Part No.	Description			Remark
Q104	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q105	8-729-600-22	TRANSISTOR	2SA1235-F		
Q106	8-729-600-22	TRANSISTOR	2SA1235-F		
Q107	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q108	8-729-600-22	TRANSISTOR	2SA1235-F		
Q109	8-729-600-22	TRANSISTOR	2SA1235-F		
Q110	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q111	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q112	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q300	8-729-600-22	TRANSISTOR	2SA1235-F		
		< RESISTOR >			
R100	1-216-811-11	METAL CHIP	150	5%	1/10W
R101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R102	1-216-820-11	METAL CHIP	820	5%	1/10W
R103	1-216-815-11	METAL CHIP	330	5%	1/10W
R104	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-809-11	METAL CHIP	100	5%	1/10W
R109	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R110	1-216-821-11	METAL CHIP	1K	5%	1/10W
R111	1-216-813-11	METAL CHIP	220	5%	1/10W
R112	1-216-809-11	METAL CHIP	100	5%	1/10W
R113	1-216-809-11	METAL CHIP	100	5%	1/10W
R114	1-216-809-11	METAL CHIP	100	5%	1/10W
R115	1-216-809-11	METAL CHIP	100	5%	1/10W
R116	1-216-807-11	METAL CHIP	68	5%	1/10W
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R119	1-216-821-11	METAL CHIP	1K	5%	1/10W
R120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R123	1-216-837-11	METAL CHIP	22K	5%	1/10W
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R125	1-216-811-11	METAL CHIP	150	5%	1/10W
R126	1-216-821-11	METAL CHIP	1K	5%	1/10W
R127	1-216-841-11	METAL CHIP	47K	5%	1/10W
R129	1-216-809-11	METAL CHIP	100	5%	1/10W
R130	1-216-809-11	METAL CHIP	100	5%	1/10W
R131	1-216-841-11	METAL CHIP	47K	5%	1/10W
R132	1-216-809-11	METAL CHIP	100	5%	1/10W
R133	1-216-809-11	METAL CHIP	100	5%	1/10W
R134	1-216-809-11	METAL CHIP	100	5%	1/10W
R137	1-216-809-11	METAL CHIP	100	5%	1/10W
R138	1-216-809-11	METAL CHIP	100	5%	1/10W
R139	1-216-809-11	METAL CHIP	100	5%	1/10W
R140	1-216-809-11	METAL CHIP	100	5%	1/10W
R141	1-216-809-11	METAL CHIP	100	5%	1/10W
R142	1-216-809-11	METAL CHIP	100	5%	1/10W
R143	1-216-864-11	SHORT CHIP	0		
R144	1-216-809-11	METAL CHIP	100	5%	1/10W
R145	1-216-809-11	METAL CHIP	100	5%	1/10W
R146	1-216-809-11	METAL CHIP	100	5%	1/10W
R147	1-216-809-11	METAL CHIP	100	5%	1/10W
R148	1-216-809-11	METAL CHIP	100	5%	1/10W
R149	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R150	1-216-809-11	METAL CHIP	100	5%	1/10W
R151	1-216-809-11	METAL CHIP	100	5%	1/10W
R152	1-216-809-11	METAL CHIP	100	5%	1/10W
R153	1-216-845-11	METAL CHIP	100K	5%	1/10W
R154	1-216-845-11	METAL CHIP	100K	5%	1/10W
R155	1-216-845-11	METAL CHIP	100K	5%	1/10W
R156	1-216-845-11	METAL CHIP	100K	5%	1/10W
R157	1-216-845-11	METAL CHIP	100K	5%	1/10W
R158	1-216-845-11	METAL CHIP	100K	5%	1/10W
R159	1-216-845-11	METAL CHIP	100K	5%	1/10W
R160	1-216-809-11	METAL CHIP	100	5%	1/10W
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R162	1-216-809-11	METAL CHIP	100	5%	1/10W
R163	1-216-809-11	METAL CHIP	100	5%	1/10W
R167	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R168	1-216-864-11	SHORT CHIP	0		
R171	1-216-841-11	METAL CHIP	47K	5%	1/10W
R173	1-216-809-11	METAL CHIP	100	5%	1/10W
R175	1-216-809-11	METAL CHIP	100	5%	1/10W
R178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R179	1-216-864-11	SHORT CHIP	0		
R180	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R181	1-216-809-11	METAL CHIP	100	5%	1/10W
R183	1-216-809-11	METAL CHIP	100	5%	1/10W
R189	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R194	1-216-801-11	METAL CHIP	22	5%	1/10W
R196	1-216-821-11	METAL CHIP	1K	5%	1/10W
R197	1-216-864-11	SHORT CHIP	0		
R198	1-220-942-11	METAL CHIP	3.3	1%	1/4W
R199	1-216-845-11	METAL CHIP	100K	5%	1/10W
R200	1-216-857-11	METAL CHIP	1M	5%	1/10W
R201	1-216-809-11	METAL CHIP	100	5%	1/10W
R204	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R208	1-216-833-11	METAL CHIP	10K	5%	1/10W
R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R210	1-216-833-11	METAL CHIP	10K	5%	1/10W
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-833-11	METAL CHIP	10K	5%	1/10W
R253	1-216-841-11	METAL CHIP	47K	5%	1/10W
R254	1-216-833-11	METAL CHIP	10K	5%	1/10W
R256	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R258	1-216-841-11	METAL CHIP	47K	5%	1/10W
R259	1-216-821-11	METAL CHIP	1K	5%	1/10W
R261	1-216-809-11	METAL CHIP	100	5%	1/10W
R262	1-216-809-11	METAL CHIP	100	5%	1/10W
R263	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R264	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R265	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R266	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R274	1-216-841-11	METAL CHIP	47K	5%	1/10W
R276	1-216-841-11	METAL CHIP	47K	5%	1/10W
R277	1-216-841-11	METAL CHIP	47K	5%	1/10W
R283	1-216-841-11	METAL CHIP	47K	5%	1/10W
R300	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-216-841-11	METAL CHIP	47K	5%	1/10W

DIAT AMP | DIAT LED | DIAT POWER

Ref. No.	Part No.	Description			Remark
R412	1-216-864-11	SHORT CHIP	0		
R940	1-218-446-11	METAL CHIP	1	5%	1/10W
R941	1-218-446-11	METAL CHIP	1	5%	1/10W
R942	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R943	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R944	1-216-821-11	METAL CHIP	1K	5%	1/10W
R950	1-216-864-11	SHORT CHIP	0		
R952	1-216-847-11	METAL CHIP	150K	5%	1/10W
R954	1-216-864-11	SHORT CHIP	0		
		< TERMINAL >			
TB301	1-780-452-11	TERMINAL BOARD (SPEAKER) 2P			
		< VIBRATOR >			
X101	1-781-465-21	VIBRATOR, CRYSTAL (12.288MHz)			
X102	1-795-313-21	VIBRATOR, CERAMIC (8MHz)			
X103	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)			

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DIAT LED BOARD
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Ref. No.	Part No.	Description
		< LED >
D400	8-719-920-55	LED SPR-54MVW (POWER/ON-LINE)

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A-1221-077-A DIAT POWER BOARD, COMPLETE (MX)
A-1221-192-A DIAT POWER BOARD, COMPLETE (US, CND)
A-1221-201-A DIAT POWER BOARD, COMPLETE (E3, E12, SP, KR, AUS, RU)
A-1221-210-A DIAT POWER BOARD, COMPLETE (E32)
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7-685-645-79 SCREW +BVTP 3X6 TYPE2 IT-3

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
⚠C901	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C902	1-117-700-51	CERAMIC	0.0022uF	99%	250V (US, CND)
⚠C903	1-117-700-51	CERAMIC	0.0022uF	99%	250V (US, CND, MX)
⚠C904	1-165-528-11	MYLAR	0.1uF	10	275V (US, CND, E32, MX)
⚠C905	1-165-528-11	MYLAR	0.1uF	10	275V (E3, E12, SP, KR, AUS, RU)
⚠C906	1-100-923-11	ELECT	100uF	20%	450V (E3, E12, SP, KR, AUS, RU)
⚠C906	1-114-171-11	ELECT	330uF	20%	250V (MX)
⚠C906	1-114-237-11	ELECT	130uF	20%	450V (E32)
⚠C907	1-165-883-11	CERAMIC CHIP	10000PF	10%	630V (US, CND, MX)
⚠C907	1-165-886-11	CERAMIC CHIP	3300PF	10%	630V (EXCEPT US, CND, MX)
⚠C908	1-117-631-31	FILM	3300PF	3%	1.2KV (US, CND, MX)
⚠C909	1-107-906-11	ELECT	10uF	20%	50V
⚠C910	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
⚠C911	1-164-162-11	CERAMIC CHIP	100PF	5%	100V
⚠C912	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
⚠C913	1-107-907-11	ELECT	22uF	20%	50V
⚠C914	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
⚠C915	1-104-962-91	ELECT	47uF	20%	35V
⚠C916	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
⚠C917	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
⚠C918	1-165-886-11	CERAMIC CHIP	3300PF	10%	630V (EXCEPT US, CND, MX)
⚠C919	1-100-922-11	ELECT	330uF	20%	200V (US, CND)
⚠C921	1-125-893-11	FILM	680PF	3%	1.5KV (EXCEPT US, CND, MX)
⚠C922	1-117-697-51	CERAMIC	470PF	10%	250V (E3, E12, SP, KR, AUS, RU)
⚠C923	1-117-697-51	CERAMIC	470PF	10%	250V (EXCEPT US, CND, MX)
⚠C925	1-117-699-11	CERAMIC	0.001uF	99%	250V
C931	1-125-782-91	CERAMIC	4700PF	10%	1KV
C932	1-128-959-21	ELECT	1000uF	20%	35V
C933	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C934	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C936	1-126-948-11	ELECT	100uF	20%	35V
C942	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
		< CONNECTOR >			
⚠* CN903	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CN904	1-564-523-11	PLUG, CONNECTOR 8P			
		< DIODE >			
⚠D901	8-719-077-77	DIODE D3SB60F3			
⚠D902	6-500-241-01	DIODE SARS03			
⚠D904	8-719-200-93	DIODE 11EQS10-TA2			
⚠D905	8-719-982-26	DIODE MTZJ-33B			
⚠D906	8-719-079-19	DIODE MTZJ-T-72-20B			
⚠D907	6-501-193-01	DIODE 1SS355WTE-17			
⚠D908	8-719-200-93	DIODE 11EQS10-TA2			
⚠D909	6-501-193-01	DIODE 1SS355WTE-17			
⚠D910	6-501-173-01	DIODE UDZW-TE17-9.1B			
⚠D911	6-500-593-41	DIODE 10EDB60-TA2B5			
⚠D913	6-501-169-01	DIODE UDZW-TE17-6.2B			
⚠D914	6-501-174-01	DIODE UDZW-TE17-10B			
⚠D915	8-719-982-26	DIODE MTZJ-33B			
D921	8-719-313-14	DIODE FML-22S			
		< FUSE HOLDER >			
FH901	1-533-313-11	FUSE HOLDER			
FH902	1-533-313-11	FUSE HOLDER			
		< IC >			
⚠IC901	6-706-347-01	IC STR-W6735N (US, CND, MX)			
⚠IC901	6-706-348-01	IC STR-W6765N (EXCEPT US, CND, MX)			
IC905	6-707-799-01	IC NJM1431AU (TE2)			
		< COIL >			
⚠L901	1-424-930-11	COIL, LINE FILTER (US, CND, E32, MX)			
⚠L902	1-419-785-11	COIL, LINE FILTER (E3, E12, SP, KR, AUS, RU)			
L903	1-456-509-11	INDUCTOR	10uH		
⚠L904	1-419-785-11	COIL, LINE FILTER (E3, E12, SP, KR, AUS, RU)			

DIAT POWER **DIAT SWITCH**

Ref. No.	Part No.	Description			Remark
		< IC >			
⚠PC901	6-600-438-01	IC TLP421F (D4-GR)			
⚠PC902	8-749-018-06	IC TLP421F (D4-SONY)			
⚠PC903	8-749-018-06	IC TLP421F (D4-SONY)			
		< TRANSISTOR >			
⚠Q901	8-729-142-51	TRANSISTOR	2SD1616A-TP-LK		
⚠Q902	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
⚠Q903	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
		< RESISTOR >			
⚠R902	1-219-759-11	METAL	1M	5%	1/2W F
⚠R905	1-249-431-11	CARBON	15K	5%	1/4W (US, CND, MX)
⚠R905	1-247-863-11	CARBON	22K	5%	1/4W (EXCEPT US, CND, MX)
⚠R906	1-215-904-11	METAL OXIDE	100K	5%	2W F (US, CND, MX)
⚠R906	1-216-468-11	METAL OXIDE	82K	5%	2W F (EXCEPT US, CND, MX)
⚠R908	1-216-362-11	METAL OXIDE	0.27	5%	2W F (EXCEPT US, CND, MX)
⚠R908	1-245-261-61	METAL OXIDE	0.12	5%	2W F (US, CND, MX)
⚠R909	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R910	1-216-809-11	METAL CHIP	100	5%	1/10W
⚠R911	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R912	1-249-417-11	CARBON	1K	5%	1/4W
⚠R913	1-249-416-11	CARBON	820	5%	1/4W
⚠R914	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R915	1-216-801-11	METAL CHIP	22	5%	1/10W
⚠R916	1-216-801-11	METAL CHIP	22	5%	1/10W
⚠R917	1-249-435-11	CARBON	33K	5%	1/4W (US, CND, MX)
⚠R917	1-249-437-11	CARBON	47K	5%	1/4W (EXCEPT US, CND, MX)
⚠R919	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
⚠R920	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R921	1-216-843-11	METAL CHIP	68K	5%	1/10W
⚠R922	1-249-435-11	CARBON	33K	5%	1/4W (US, CND, MX)
⚠R922	1-249-437-11	CARBON	47K	5%	1/4W (EXCEPT US, CND, MX)
⚠R924	1-249-431-11	CARBON	15K	5%	1/4W (US, CND, MX)
⚠R924	1-247-863-11	CARBON	22K	5%	1/4W (EXCEPT US, CND, MX)
⚠R925	1-249-431-11	CARBON	15K	5%	1/4W (US, CND, MX)
⚠R925	1-247-863-11	CARBON	22K	5%	1/4W (EXCEPT US, CND, MX)
⚠R926	1-216-833-11	METAL CHIP	10K	5%	1/10W
R931	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R932	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R933	1-216-841-11	METAL CHIP	47K	5%	1/10W
R935	1-218-700-11	METAL CHIP	2.2K	0.5%	1/10W
R936	1-216-864-11	SHORT CHIP	0		
R938	1-216-821-11	METAL CHIP	1K	5%	1/10W
R939	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R945	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R946	1-216-809-11	METAL CHIP	100	5%	1/10W
R948	1-216-811-11	METAL CHIP	150	5%	1/10W
R960	1-216-864-11	SHORT CHIP	0		
		< TRANSFORMER >			
⚠T901	1-445-131-11	TRANSFORMER, DC CONVERTER			(US, CND, MX)
⚠T901	1-445-132-11	TRANSFORMER, DC CONVERTER			(EXCEPT US, CND, MX)
		< THERMISTOR >			
⚠TH901	1-805-799-11	THERMISTOR, NTC 8.0			
⚠TH902	1-805-553-21	THERMISTOR, POSITIVE			
		< VARISTOR >			
⚠VDR901	1-805-482-11	VARISTOR			

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DIAT SWITCH BOARD
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Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
⚠* CN901	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P	
⚠* CN902	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P	
		< SWITCH >	
⚠S901	1-571-433-31	SWITCH, PUSH (AC POWER) (POWER)	

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MISCELLANEOUS
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Ref. No.	Part No.	Description	Remark
⚠54	1-696-848-81	CORD, POWER (AUS)	
⚠54	1-769-079-23	CORD, POWER (KR)	
⚠54	1-777-071-23	CORD, POWER (E3, SP)	
⚠54	1-827-226-41	CORD, POWER (MX)	
⚠54	1-830-188-11	CORD, POWER (E12, E32, RU)	
⚠54	1-830-190-11	CORD, POWER (US, CND)	
⚠F901	1-532-465-33	FUSE (T3.15AL/250V)	(E3, E12, SP, KR, AUS, RU)
⚠F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V)	(US, CND, MX)
⚠F901	1-576-232-51	FUSE (T5AL/250V) (E32)	

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ACCESSORIES
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Ref. No.	Part No.	Description	Remark
⚠	1-569-008-22	ADAPTOR, CONVERSION 2P (E32)	

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2004.06	New
1.1	2007.02	Addition of New type (for WAHT-SD1) (Supplement-1)